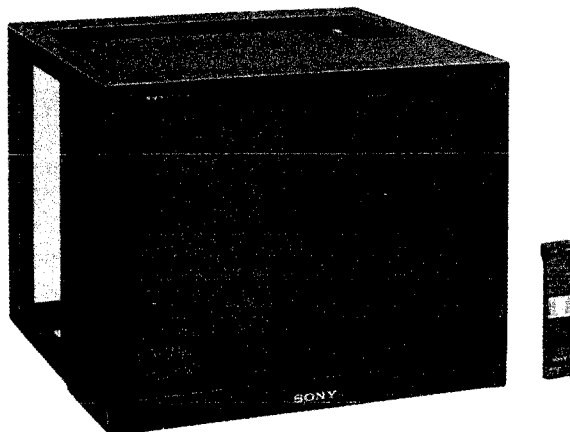


KX-27HG2

RM-668

SERVICE MANUAL

E Model
Chassis No. SCC-B51A-A



Note: The service manuals for RM-668 have been issued separately.

MODELS OF THE SAME SERIES

KX-27HG2	
KX-27HG1	

SPECIFICATIONS

Color system PAL, SECAM, NTSC and NTSC_{4,43} systems, switched automatically
 Picture tube Trinitron tube
 Approx. 67.7 cm (27 inches)
 (63.5 cm picture measured diagonally)
 114-degree deflection, AG pitch 0.73 mm
 Resolution Video input: 450 TV lines
 RGB inputs: 640 × 200 dots
 (2000 characters)

LINE A/B, VTR inputs

VIDEO IN: LINE A/B: BNC connector
 Composite video, 1 Vp-p ±6 dB, sync negative, 75-ohm termination switchable

VTR: 8-pin connector
 Composite video, 1 Vp-p ±6 dB, sync negative, 75-ohm terminated

AUDIO IN: LINE A/B: Phono jack
 -5 dBs, more than 47 kilohms
 VTR: 8-pin connector, -5 dBs, more than 47 kilohms

LINE A/B outputs (loop-through outputs)

VIDEO: BNC connector
 AUDIO: Phono jack

Monitor outputs VIDEO: BNC connector
 Composite video, 1 Vp-p
 AUDIO: Phono jack
 Less than 1 kilohm

Digital RGB inputs

RGB: D-sub 9-pin connector
 (See "Signal assignment")
 AUDIO: Phono jack
 -5 dBs, more than 47 kilohms

AV connector 21-pin connector
 (See "Signal assignment".)

Speaker terminals 8 ohms

Control S input/output Minijack, 5 Vp-p

Power output 15 W + 15 W at 8 ohms

Power requirements 110 - 240 V AC, 50/60 Hz

Power consumption 175 W

Dimensions Approx. 653 × 508 × 492 mm (w/h/d)
 incl. projecting parts and controls

Weight Approx. 52 kg

Supplied accessory

Remote Commander RM-668 with 2 R6 batteries 1

Optional accessories

TV stand SU-539, SU-541
 Speaker system SS-X6A, APM-X5A
 TV tuner VTX-1100M
 Teletext unit TXT-1100

— Continued on next page —



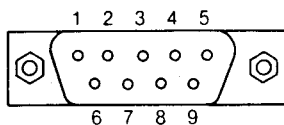
TRINITRON COLOR VIDEO MONITOR

SONY®

MON

SIGNAL ASSIGNMENT

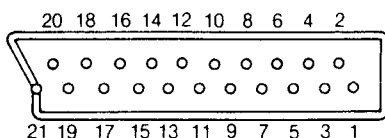
DIGITAL RGB connector (D-sub 9-pin)



Digital signal (TTL level)

Pin No.	Signal assignment
1	Ground
2	Ground
3	Red input
4	Green input
5	Blue input
6	Intensity input
7	No connection
8	H. sync input (positive/negative)
9	V. sync input (positive/negative)

AV connector (21-pin)



Pin No.	Signal	Signal level
1	Audio output B (right)	Standard level: 0.5 Vrms Output impedance: Less than 1 kilohm *
2	Audio input B (right)	Standard level: 0.5 Vrms Input impedance: More than 10 kilohms *
3	Audio output A (left)	Standard level: 0.5 Vrms Output impedance: Less than 1 kilohm *
4	Ground (audio)	
5	Ground (blue)	
6	Audio input A (left)	Standard level: 0.5 Vrms Input impedance: More than 10 kilohms *
7	Blue input	0.7 V \pm 3 dB, 75 ohms, positive
8	Function select (AV control)	High state (9.5 - 12 V): Peri mode Low state (0 - 2 V): TV mode Input impedance: More than 10 kilohms Input capacitance: Less than 2 nF

Pin No.	Signal	Signal level
9	Ground (green)	
10	Open	
11	Green input	(Same as Pin 7)
12	Open	
13	Ground (red)	
14	Ground (blanking)	
15	Red input	(Same as Pin 7)
16	Blanking input	High state (1 - 3 V) Low state (0 - 0.4 V) Input impedance: 75 ohms
17	Ground (video output)	
18	Ground (video input)	
19	Video output	1 V \pm 3 dB, 75 ohms, positive Sync: 0.3 V (\pm 3 dB)
20	Video input	1 V \pm 3 dB, 75 ohms, positive Sync: 0.3 V (\pm 3 dB)
21	Common ground (plug, shield)	

* at 20 Hz - 20 kHz

Design and specifications subject to change without notice.

TROUBLESHOOTING

If these symptoms occur when you begin operation, follow the suggestions below.


SYMPTOMS	CORRECTIONS
No controllable keys although the POWER switch is turned on.	• Press the CONTROL key.
No indication appears although the CONTROL key is pressed.	• Set the MANUAL CONTROL switch on the rear panel to ON.
Remote control is not possible.	• Set the REMOTE CONTROL switch on the rear panel to ON.

If the problem still cannot be solved, contact your authorized Sony dealer.

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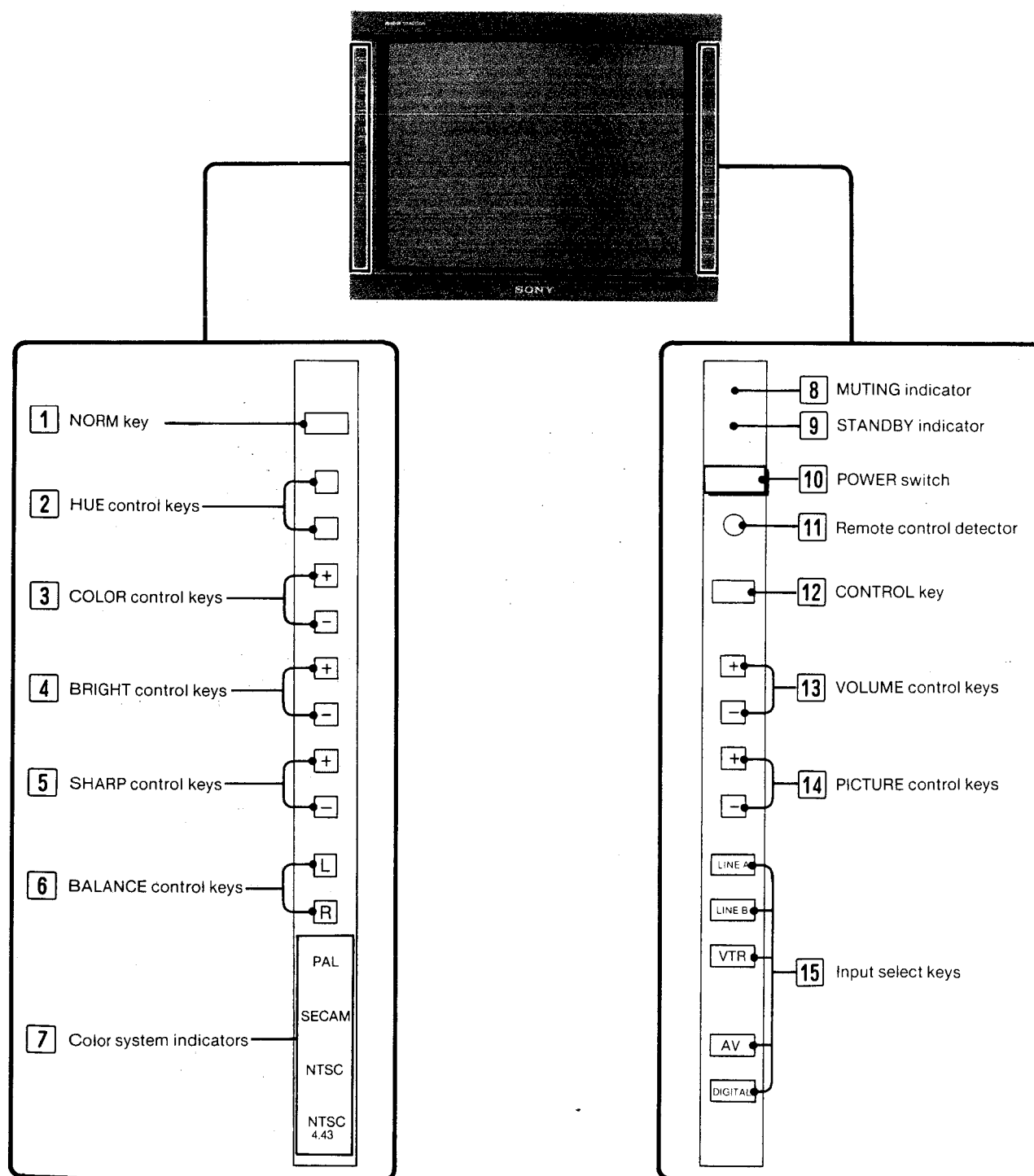
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF PARTS AND CONTROL

FRONT PANEL



• Press CONTROL key after power is turned on to illuminate the control keys or indicators.

The following control keys are effective only when MANUAL CONTROL switch on the rear panel is set to ON.

1 NORM (normal) key

Press this key to return to the standard setting.

- This key is effective only for the control keys on the left.

2 HUE control keys

Press the GRN (green) key to make the skin tones greenish or the PUR (purple) key to make it purplish.

- These control keys are effective for the NTSC and NTSC_{4.43} color systems only.

3 COLOR control keys

Press the + key to make the color intensity vivid or the – key to make it pale.

4 BRIGHT (brightness) control keys

Press the + key to make the picture brighter or the – key to make it darker.

5 SHARP (sharpness) control keys

Press the + key to obtain a sharp picture or the – key to obtain a soft picture.

6 BALANCE control keys

Press the L key to increase the sound volume of the left speaker or the R key to increase the sound volume of the right speaker.

7 Color system indicators

PAL, SECAM, NTSC, NTSC_{4.43}

The color system of the input signal is automatically selected and the corresponding indicator illuminates. When the input signal is monochrome, no color system indicator illuminates.

8 MUTING indicator

Illuminates while the sound is muted.

- Muting is controlled only by the Remote Commander.

9 STANDBY indicator

Illuminates when the power is turned off by the Remote Commander.

10 POWER switch

Press this switch to turn the monitor on.

Press this switch again to turn it off.

- When the monitor is turned on, the settings of the monitor are the same as when it was last turned off.
- For a few seconds after turning on the monitor the color of picture may vary because the white balance is adjusted at this time. This is not a problem.

11 Remote control detector

The beam from the Remote Commander is received here.

12 CONTROL key

Press this key to illuminate the keys and indicators on the front panel.

Press this key again to extinguish them.

13 VOLUME control keys

Press the + key to raise the volume or the – key to lower it.

14 PICTURE control keys

Press the + key to make the contrast, color intensity and brightness stronger or the – key to make them weaker.

15 Input select keys

LINE A, LINE B, VTR, AV, DIGITAL

Select the input source connected to the LINE A, LINE B, VTR, AV or DIGITAL RGB connector.

When a key is pressed:

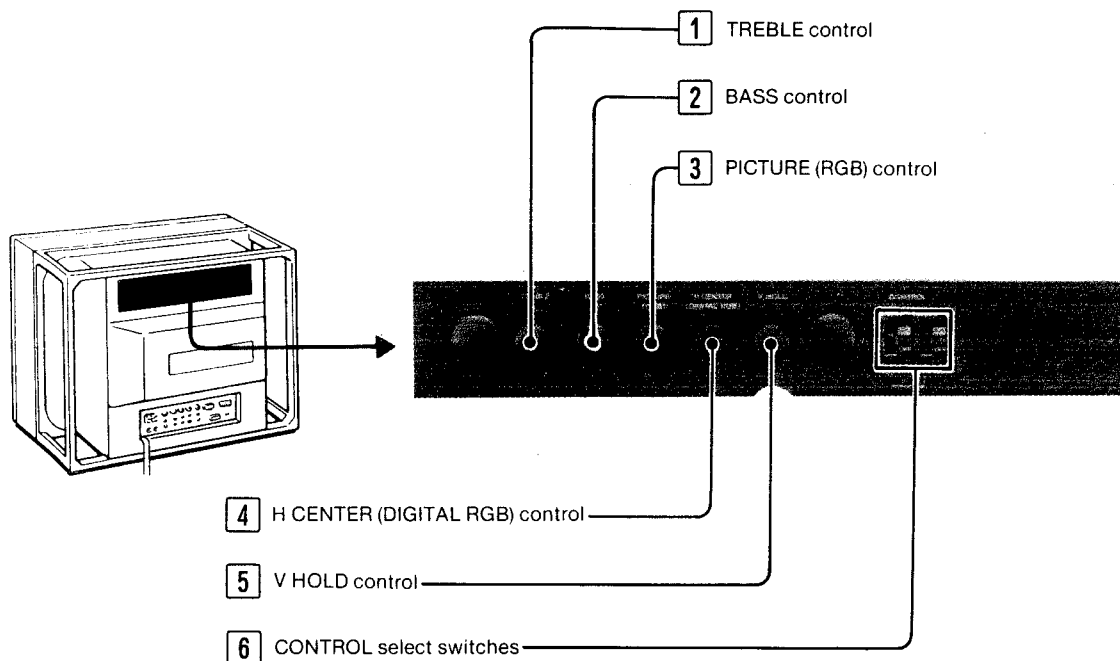
- it blinks if the other indicators and keys on the front panel illuminate.
- it illuminates if they are extinguished.

Key illumination

For the keys 1 through 7, 13 and 14:

- While each key is pressed, it blinks, indicating that adjustment is going on.
- During adjustment, if the adjustment value reaches the limit, the blinking speed becomes slower.

REAR PANEL



1 TREBLE control

Turn clockwise for more treble (high tone), or counterclockwise for less.

2 BASS control

Turn clockwise for more bass (low tone), or counterclockwise for less.

3 PICTURE (RGB) control

Adjust the contrast of the RGB signals connected to the AV connector or the DIGITAL RGB connector.

4 H CENTER (DIGITAL RGB) (horizontal centering) control

When the picture of DIGITAL RGB input is decentered horizontally, correct it with this control.

5 V HOLD (vertical hold) control

When the picture rolls vertically, correct it with this control.

6 CONTROL select switches

Normally set to ON.

REMOTE CONTROL switch

Set this switch to ON to control the monitor with a Remote Commander.

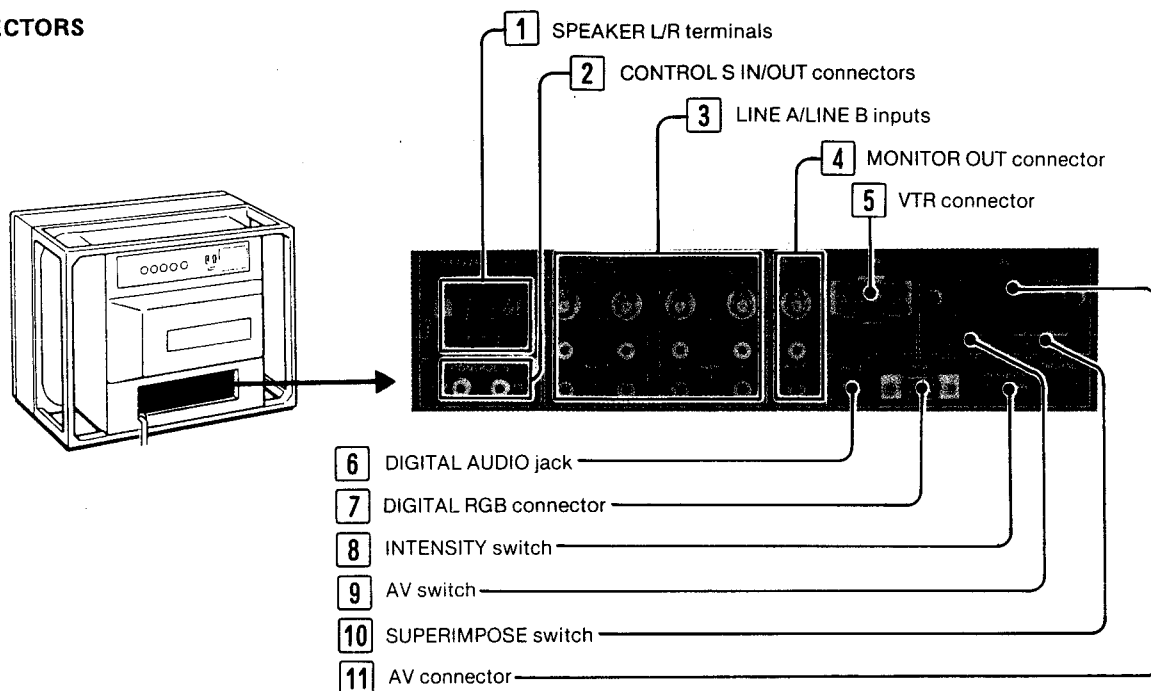
If this switch is set to OFF, the remote control is not possible.

MANUAL CONTROL switch

Set this switch to ON to control the monitor manually. To make the manual control of the control keys or switches on the front panel impossible, extinguish the indicators by pressing the CONTROL key on the front panel and set this switch to OFF.

(However remote control is possible if the REMOTE CONTROL switch is set to ON.)

CONNECTORS



1 SPEAKER L/R terminals

Connect to speakers with 8 to 16 ohm impedance.

2 CONTROL S IN/OUT connectors

Connect to the CONTROL S connectors of a VTR or another monitor.
It is then possible to control the whole system with a single Remote Commander.

3 LINE A/LINE B inputs

VIDEO IN connector (BNC type)

AUDIO L/R IN jacks (phono jack)

Connect to the video and audio outputs of a VTR or a camera.

VIDEO OUT connector (BNC type)

AUDIO L/R OUT jacks (phono jack)

Loop-through outputs of the IN connector and jacks.
Connect to the video and audio inputs of another monitor.

75-ohm termination switch

When only the VIDEO IN connector is used (nothing is connected to the VIDEO OUT connector), set this switch to ON.

When both connectors are used together for a loop-through connection, set this switch to OFF.

4 MONITOR OUT connectors

VIDEO connector (BNC type)

AUDIO L/R jacks (phono jacks)

The video and audio signals supplied from the LINE A, LINE B, VTR or AV input selected by the front panel input select keys are output from these connectors.
Connect to the video and audio inputs of another monitor, VTR, etc.

5 VTR connector (8-pin)

Connect to a VTR with an 8-pin TV connector.

6 DIGITAL AUDIO jack (phono jack)

Connect to the audio output of an audio source to listen to the sound from the connected audio source while viewing the picture from the DIGITAL RGB connector.

7 DIGITAL RGB connector (9-pin, D-sub)

Connect to the digital RGB output of a microcomputer.

8 INTENSITY switch

Normally set to OFF. When a microcomputer provided with intensity output is connected, set to ON for 16-color display.

9 AV switch

Set to ON so that the monitor is automatically switched to the AV input when a signal is input from the AV connector, taking priority over the LINE A, LINE B or VTR input previously selected by the input select keys on the front panel. Set to OFF to select the AV input manually by pressing the AV input select key.

10 SUPERIMPOSE switch

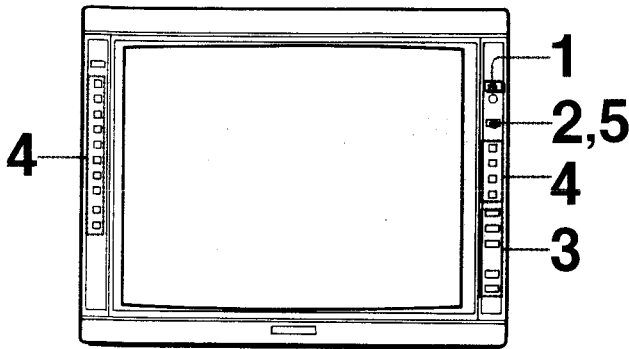
Normally set to ON.
Set to OFF to display the analog RGB signal from the microcomputer connected to the AV connector.

11 AV connector (21-pin)

Connect to the 21-pin multiconnector of an 8 mm video cassette recorder or the analog RGB multioutput connector of a microcomputer.

1-2. OPERATION

DISPLAYING THE PICTURE



- 1** Depress the POWER switch.
One of the input select keys illuminates.
- 2** Press the CONTROL key.
The selected input select key blinks and all control keys on the front illuminate.
(If the control keys do not appear, set the MANUAL CONTROL switch on the rear to ON.)
- 3** Press the desired input select key.
The pressed key blinks and the picture from the selected input is displayed on the screen and the sound is heard through the speakers.
(For selecting the AV or DIGITAL input, see "NOTES ON INPUT SELECTION".)
- 4** Adjust the picture and sound.
- 5** Press the CONTROL key to extinguish the control keys so that only the selected input select key illuminates.

SUPERIMPOSING

To superimpose the data from the microcomputer connected to the AV connector over the picture, proceed as follows.
(The data should be processed for superimposition on the microcomputer.)

- 1** Set the SUPERIMPOSE switch to ON.
- 2** Press the LINE A, LINE B or VTR input select key to display the picture on which the data is to be superimposed on the monitor screen.
- 3** Press the AV input select key.
The data is superimposed over the picture.
- 4** Adjust the contrast of the superimposed data with the PICTURE (RGB) control.

NOTES ON INPUT SELECTION

AV input and SUPERIMPOSE switch

Set the SUPERIMPOSE switch on the rear as follows, according to the signal supplied to the AV connector.

SUPERIMPOSE switch	Signal to be displayed
ON	<ul style="list-style-type: none"> • To display the composite video signal from a 8 mm video cassette recorder, etc. • To perform superimposition. (See "SUPERIMPOSING".)
OFF	<ul style="list-style-type: none"> • To display the analog RGB signal from a microcomputer, etc. In this case, the sync signal should be supplied to pin 20 of the AV connector.

- When the AV input select key is pressed with the SUPERIMPOSE switch ON, the previously selected LINE A, LINE B or VTR input select key blinks together with the AV key.
- When it is pressed with the SUPERIMPOSE switch OFF, only the AV key blinks.

AV input and AV switch

When the AV switch on the rear is set to ON, the monitor is automatically switched from the LINE A, LINE B or VTR input to the AV input if a signal is input to the AV connector.
Set the AV switch to OFF to select the AV input manually by pressing the AV input select key.

DIGITAL input

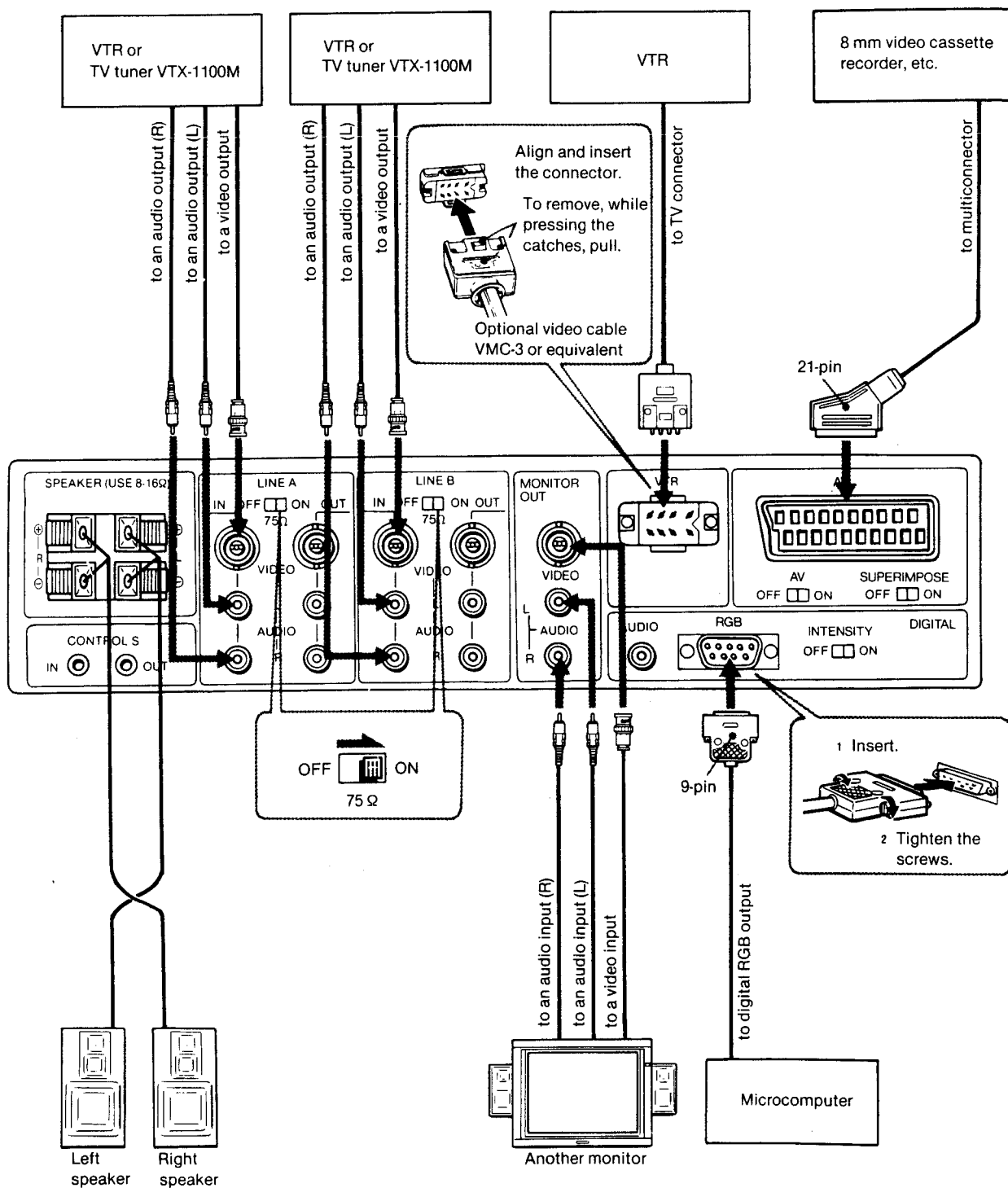
- To display the digital RGB signal from a microcomputer provided with intensity output in 16 colors, set the INTENSITY switch on the rear to ON.
- If necessary, center the picture from the DIGITAL RGB connector with the H CENTER control on the rear panel.

Note

The COLOR, HUE and SHARP control keys do not function when the DIGITAL input is selected or the AV input is selected with the SUPERIMPOSE switch OFF.

1-3. SYSTEM CONNECTIONS

CONNECTION DIAGRAM

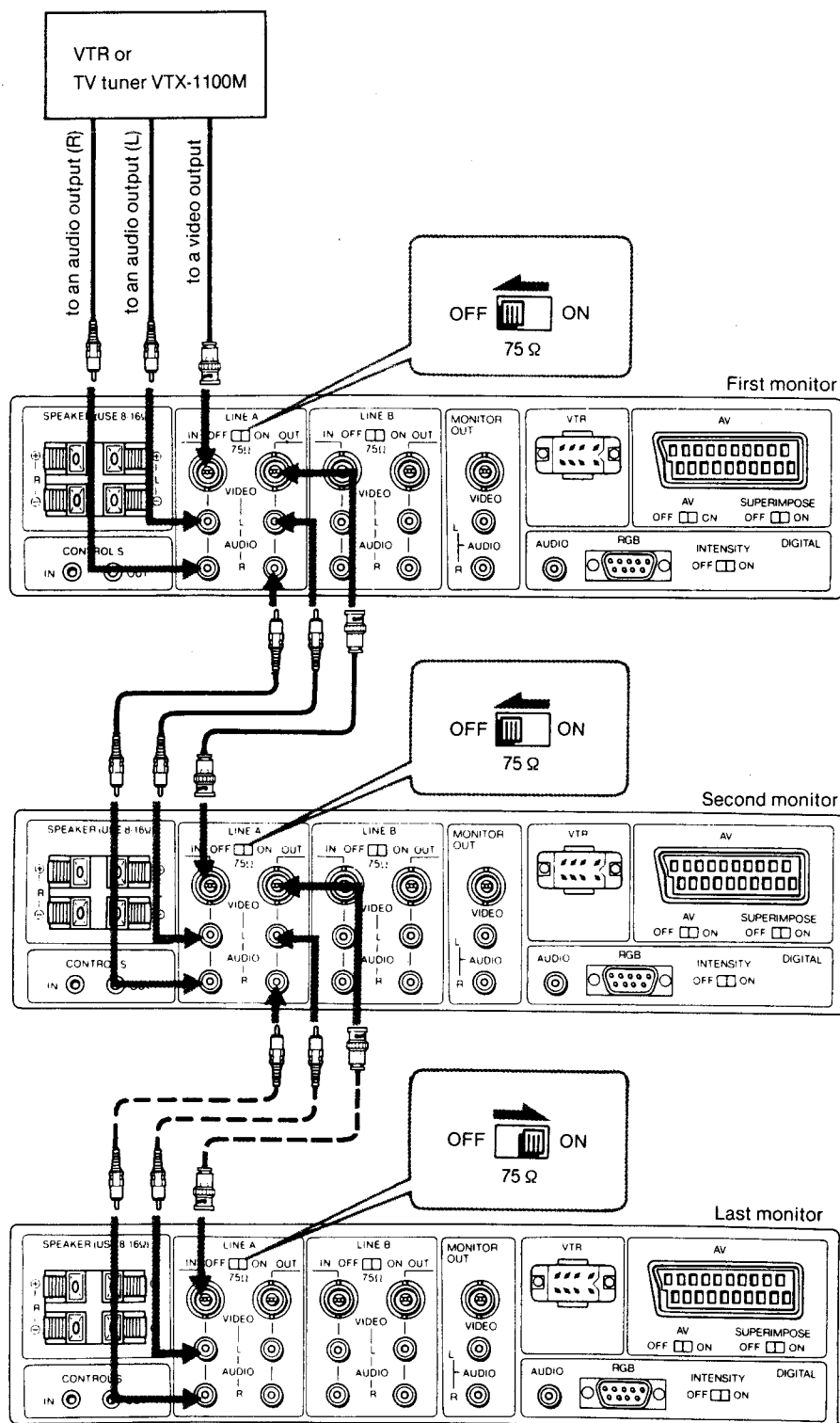


Note

- When a microcomputer has an analog RGB output connector, connect it to the AV connector.
- When a microcomputer has only a composite video output connector, connect it to the LINE A or LINE B VIDEO IN connector.

CONNECTING SEVERAL MONITORS

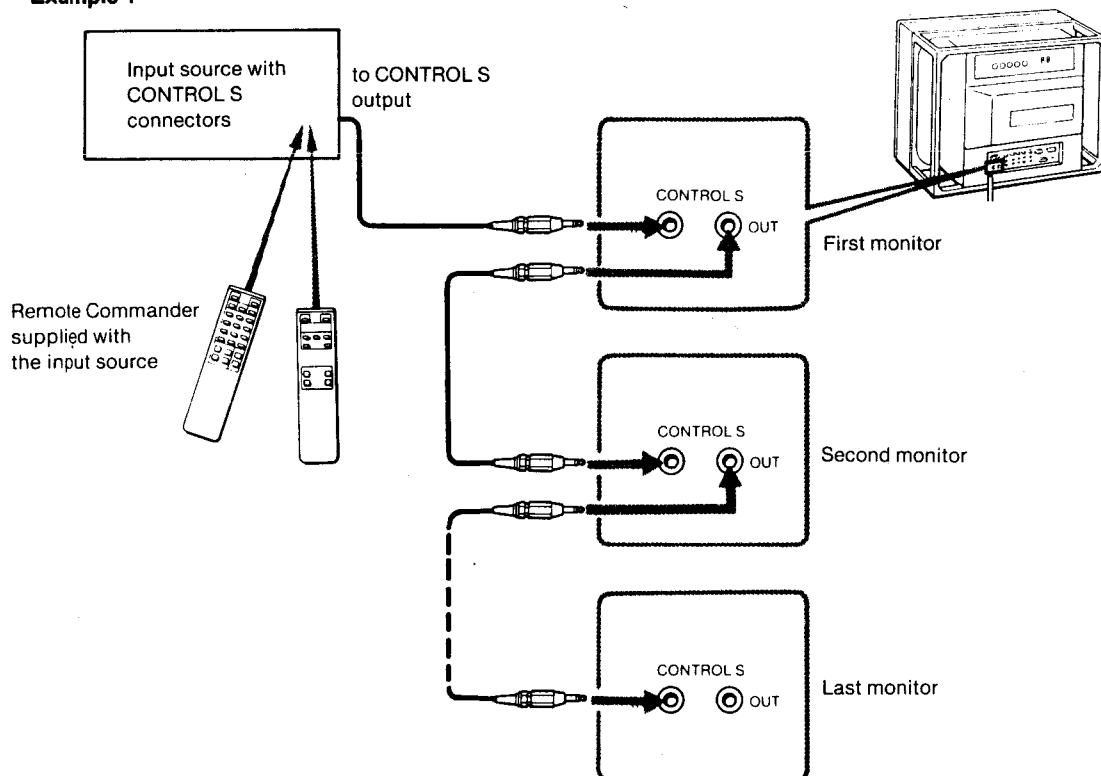
A loop-through connection is convenient for monitoring the same signal on the monitors. Up to 10 monitors can be connected. It is recommended to use a signal distributor when several monitors are connected.



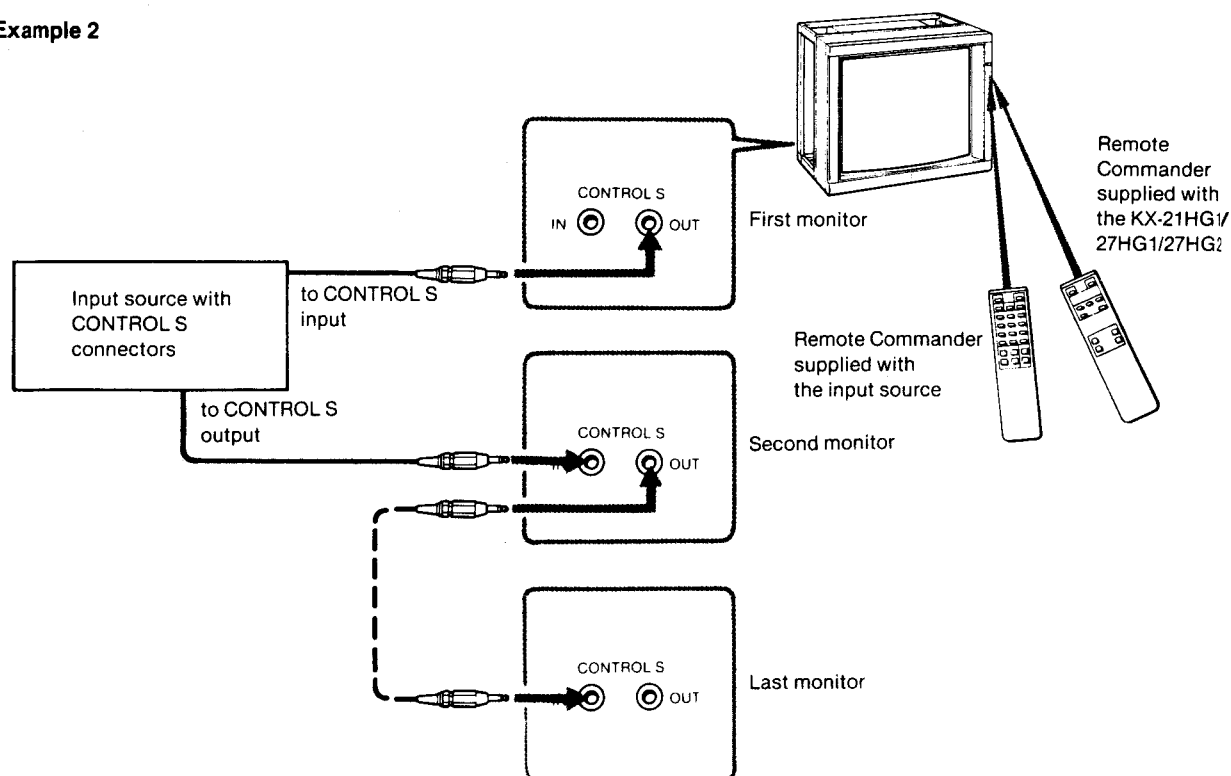
CONTROL S CONNECTION

The following connections allow remote control of several monitors and a VTR through a single monitor.

Example 1



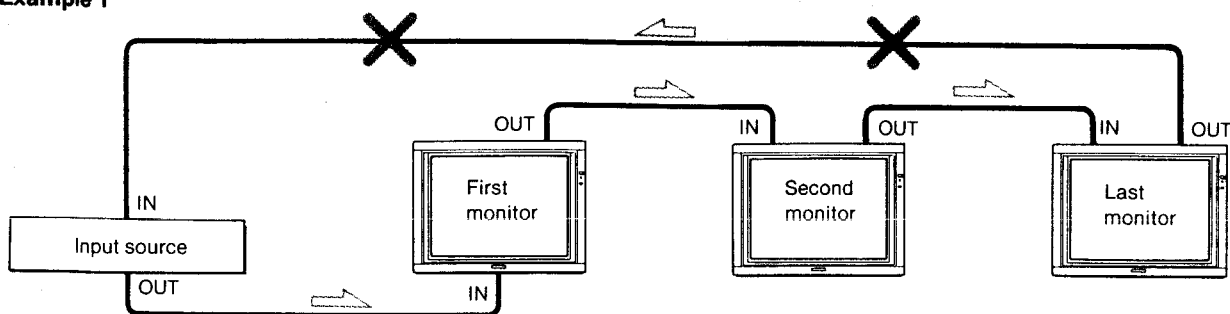
Example 2



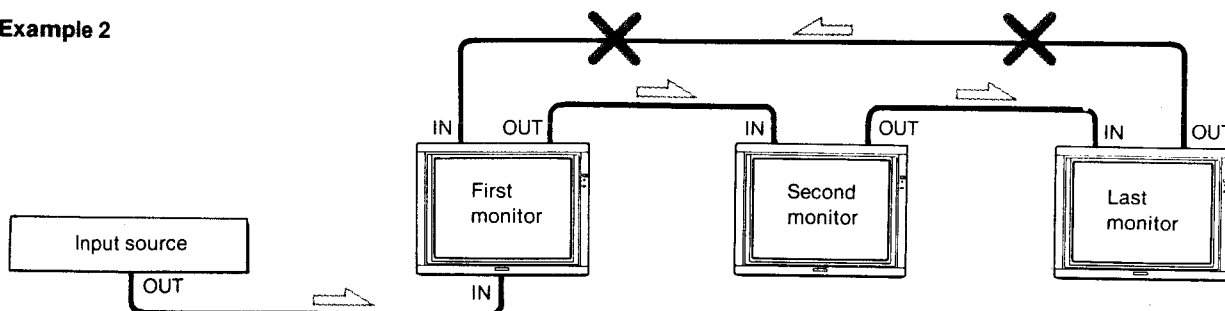
Note

Do not use the following loop connections.

Example 1



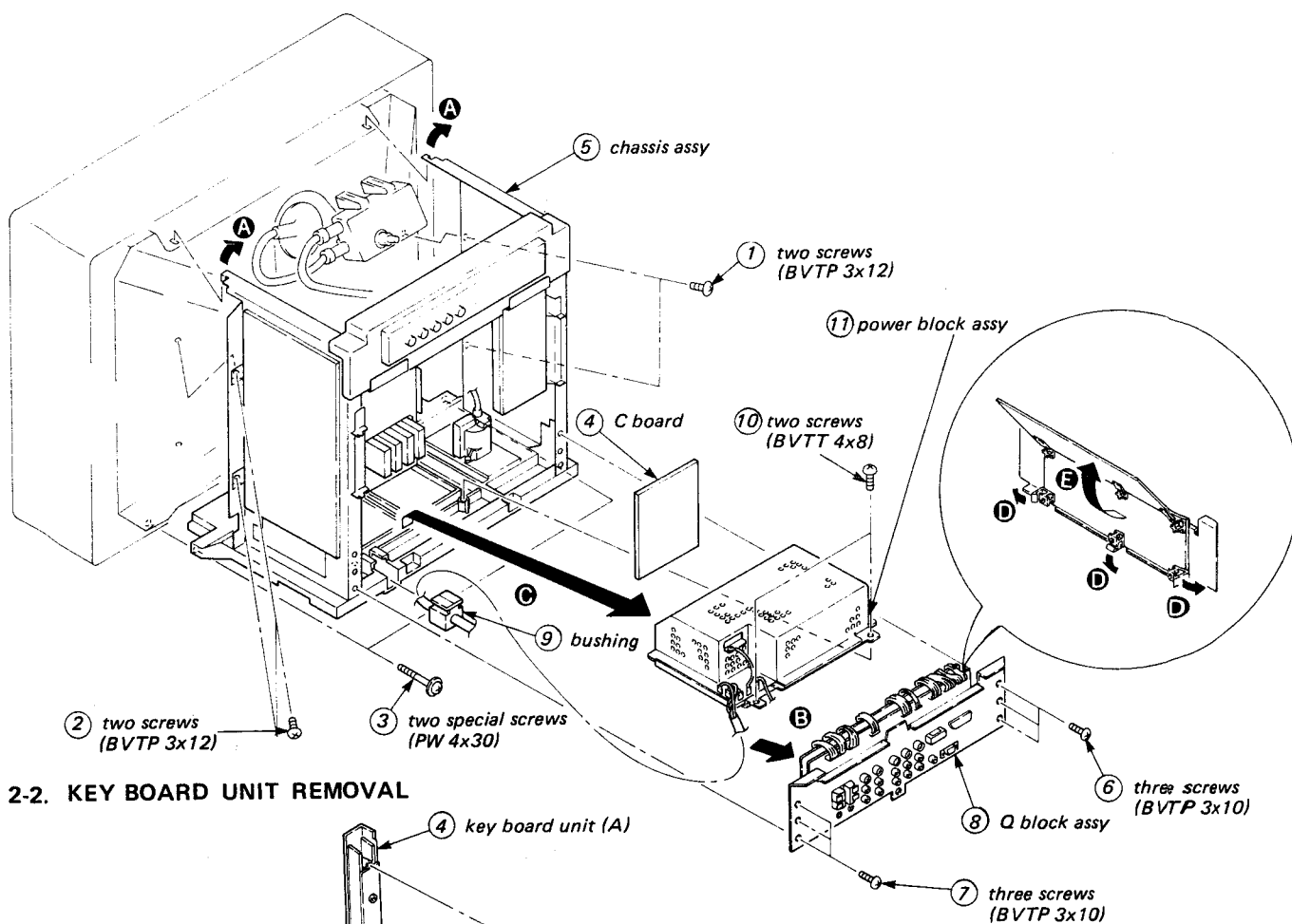
Example 2



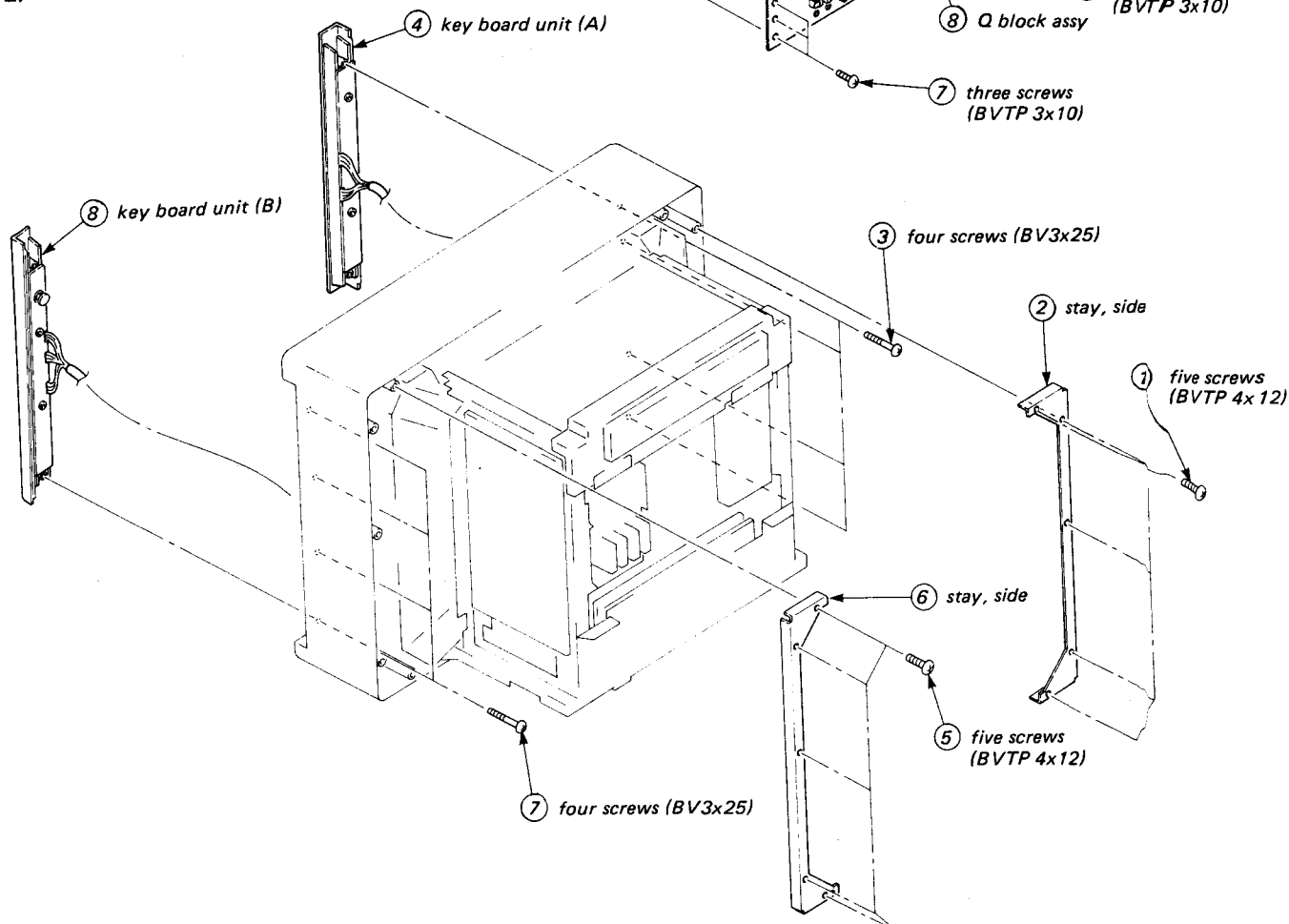
 CONTROL S signal flow

SECTION 2 DISASSEMBLY

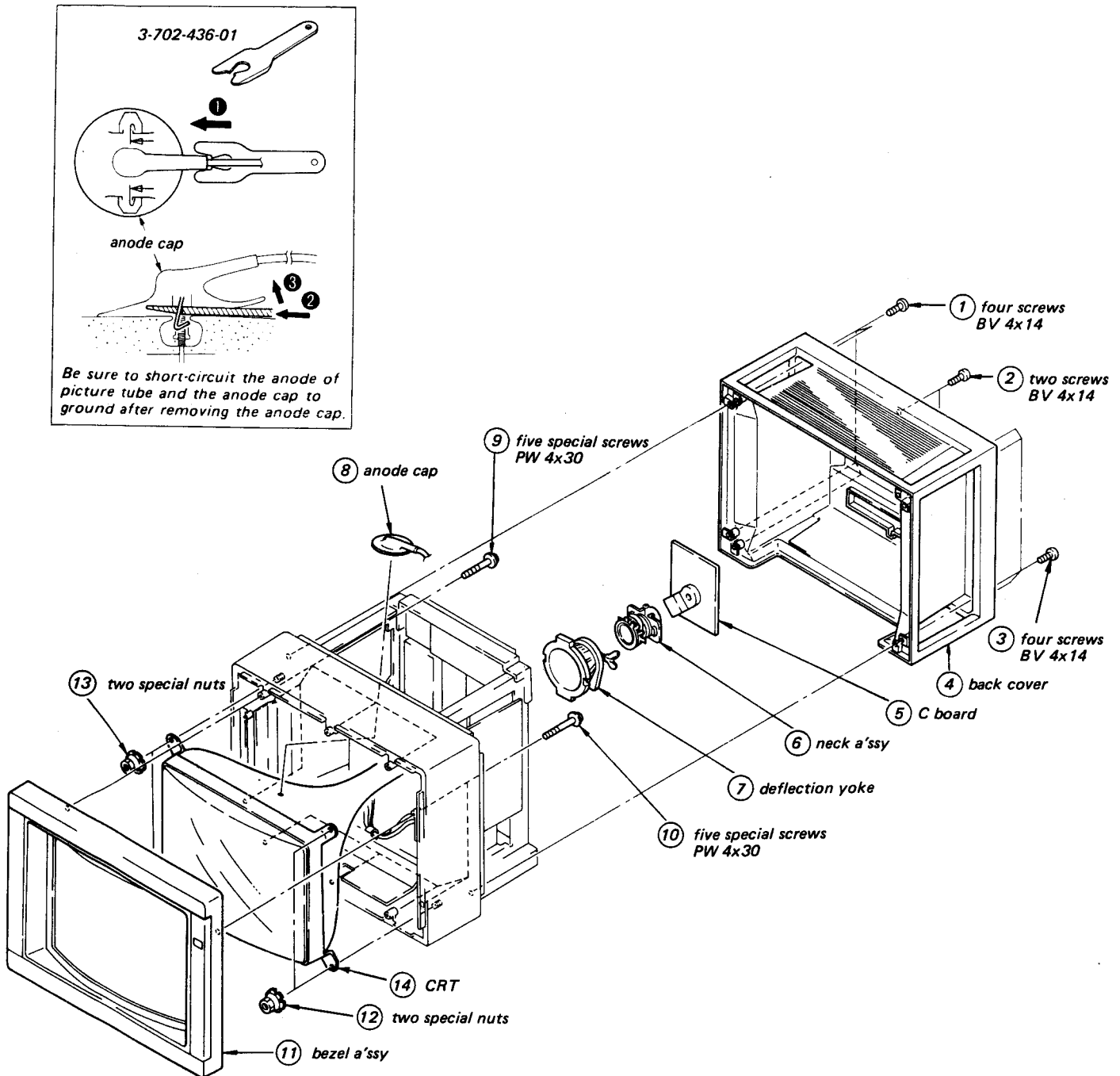
2-1. CHASSIS ASSY AND POWER BLOCK ASSY REMOVAL



2-2. KEY BOARD UNIT REMOVAL



2.3. PICTURE TUBE REMOVAL



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
 - These adjustments should be performed with rated power supply voltage unless otherwise noted.
- Buttons should be set as follows unless otherwise noted:

PICTURE button 80%
BRIGHTNESS button normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. V. CENTER
4. Focus
5. White Balance

Note: Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

3-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
 - Before starting, degauss the entire screen.
1. Loosen deflection yoke screw Fig. 3-5.
 2. Position neck ass'y as shown in Fig. 3-1.
 3. Adjust purity control as shown in Fig. 3-2.
 4. Slide deflection yoke as far forward as it will go Fig. 3-5.
 5. Turn the raster signal of the pattern generator to red.
 6. Adjust purity control to center vertical red band as shown in Fig. 3-3.
 7. Slide deflection yoke back for a uniform red screen Fig. 3-5.
 8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.
 9. Tighten the deflection yoke screw Fig. 3-5.
 10. Check if mislanding appears at corners a - d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
 11. Confirm that beam landing is correct when the receiver is faced in all directions.

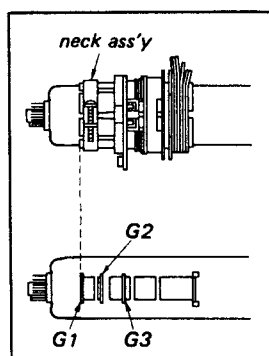


Fig. 3-1.

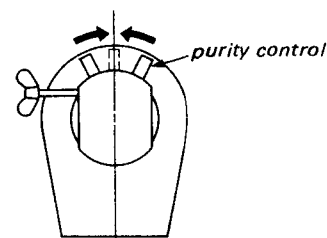


Fig. 3-2.

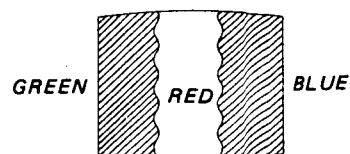


Fig. 3-3.

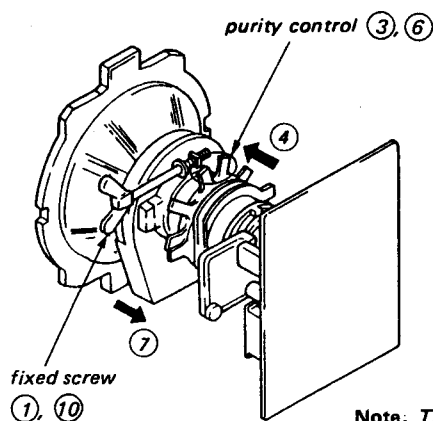


Fig. 3-5.

Note: The circled numbers (1 - 10) show above steps.

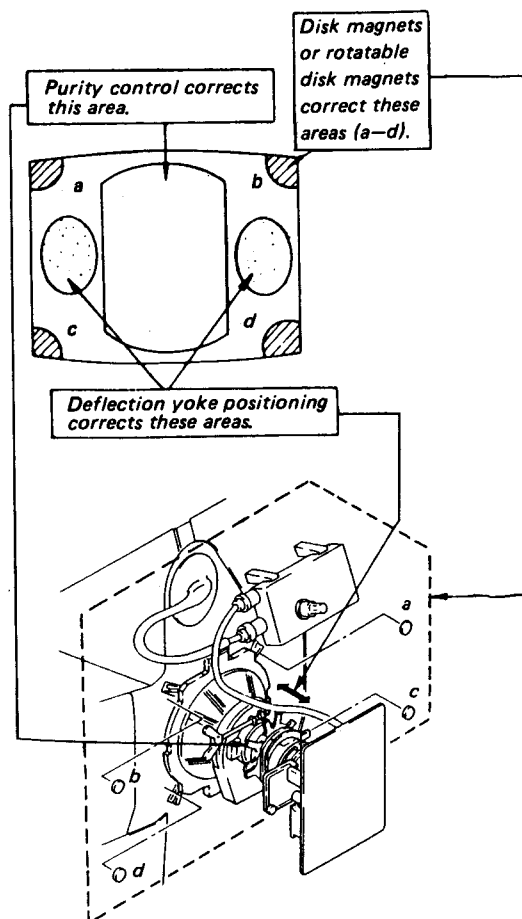


Fig. 3-4.

3.2. CONVERGENCE

Preparation:

- PICTURE — minimum
- BRIGHTNESS — minimum

D2 board:

- CORNER BOW (RV2504)
 - H.TILT (RV2502)
 - Y.BOW (RV2503)
 - H.AMP (RV2501)
 - Y.CROSS (RV2505)
- } mechanical center

• Input a dot signal.

(1) Horizontal and Vertical Convergence.

1. Match the horizontal convergence at the center of the screen with H.STAT VR.
2. Match the vertical convergence at the center of the screen with V.STAT Mg.

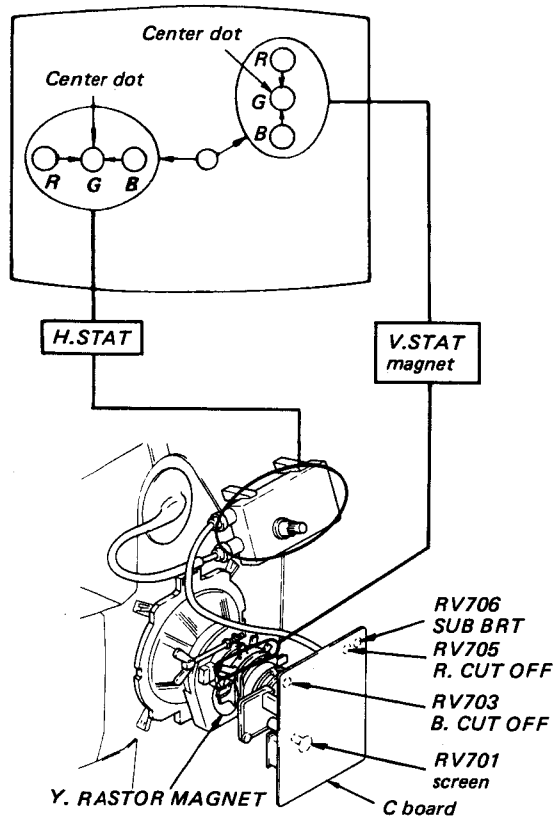


Fig. 3-6.

3. If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below.
(In this case, H.STAT VR and V.STAT magnet effect each other.)

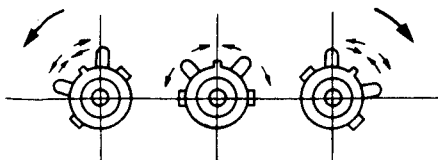


Fig. 3-7.

4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.

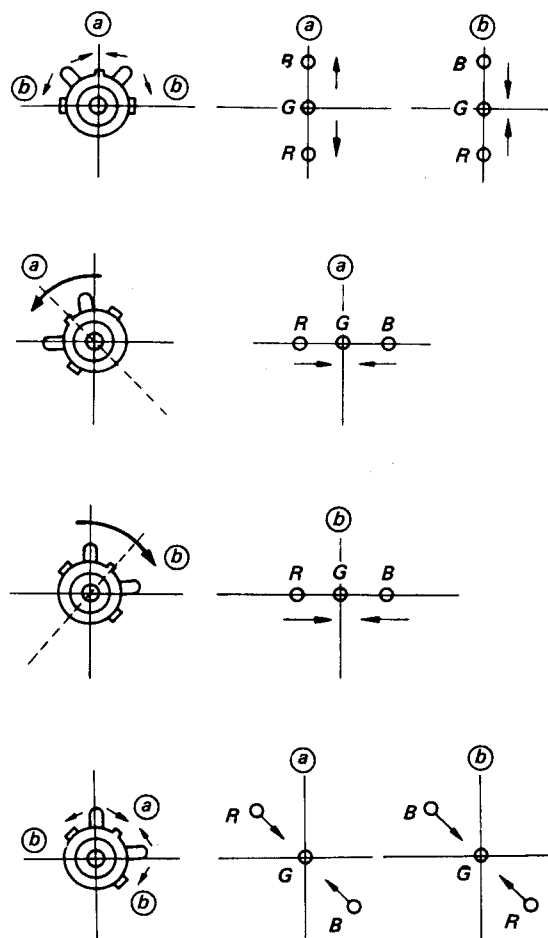


Fig. 3-8.

If blue dot does not coincide with red and green dot, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

In either case, repeat Beam Landing Adjustment.

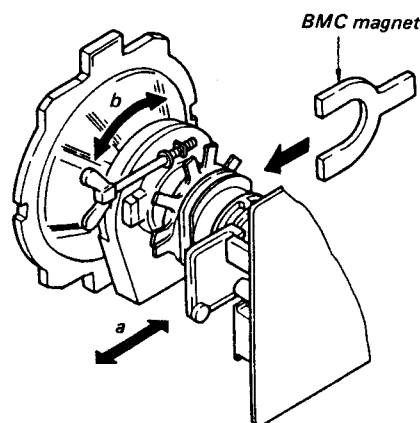


Fig. 3-9.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- 1. Loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.
- 3. Move the deflection yoke for best convergence.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.
- 6. Adjust the Y.CROSS (RV2505) and Y. BOW (RV2503), so that RED and BLUE shown in Fig. 3-10 will become $a=b=c$.

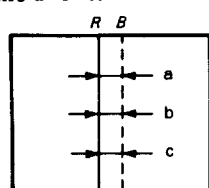


Fig. 3-10.

7. Match the horizontal convergence at the center of the screen with H STAT VR.
8. Adjust the CORNER BOW (RV2504), so that RED and BLUE shown in Fig. 3-11 will become $a=b=c$ and $d=e=f$.

Note: At this point, if the relationship between $a=c$ or $d=f$ is not established, adjust the Y · CROSS (RV2505) again.

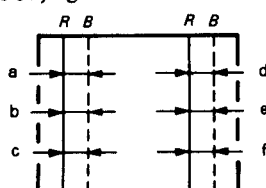


Fig. 3-11.

9. Match the horizontal convergence at the centre of the screen with the H STAT VR.
10. Adjust the H TILT (RV2502) so that the RED and BLUE shown in Fig. 3-12 will become $a=b$.

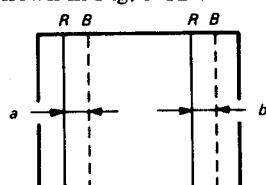


Fig. 3-12.

11. Adjust the H AMP (RV2501) so that the RED and BLUE shown in Fig. 3-13 will become $a=2b$.

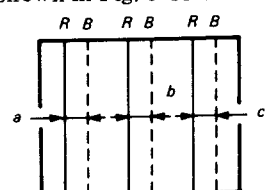
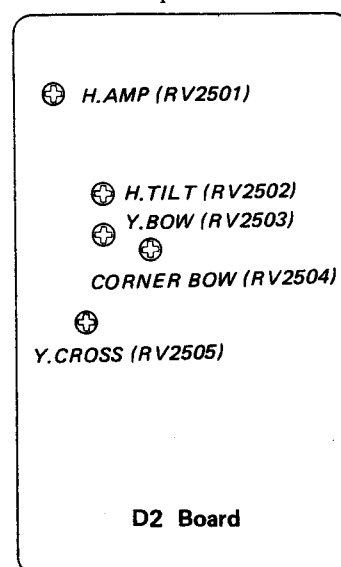


Fig. 3-13.

12. Match the horizontal convergence at the center of the screen with the H STAT VR.
13. When the H AMP is adjusted repeat the procedures described in Steps 5 to 7.
14. If divergence of the convergence exists at the corner of the screen, the adjustments described in Steps after 3 should be repeated.



(Conductor side)

Fig. 3-14.

3-3. V CENTER ADJUSTMENT

1. Set the V center magnets A and B to the position shown in the figure and align the vertical position (RV503) of the D board. (Fig. 3-15 and 3-16)

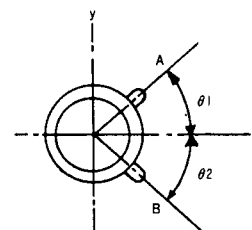
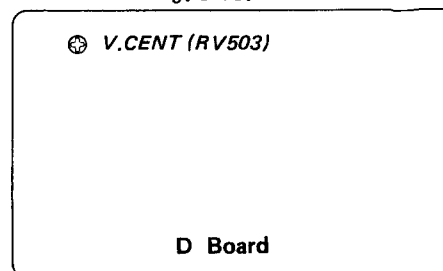


Fig. 3-15.



(Component Side)

Fig. 3-16.

2. When the x-axis on the CRT is detuned, correct with the V center magnets, and then align the V center with RV503.

34. FOCUS ADJUSTMENT

1. Receive a broadcast.
2. Picture maximum.
3. Adjust the focus VR of the flyback transformer (T1691 on FB board) so that the focus at the center of the screen is optimum. (Fig. 3-17.)

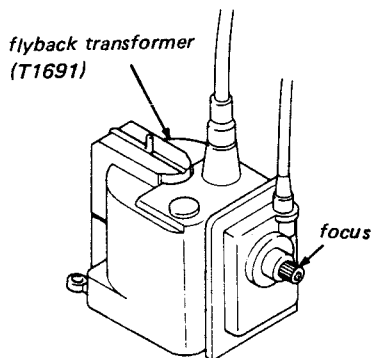
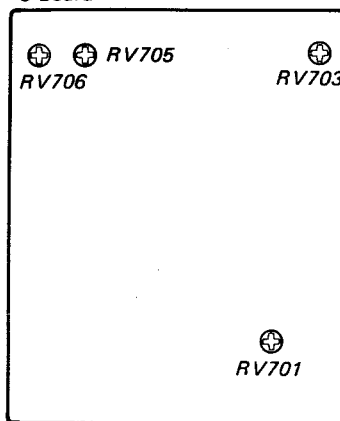


Fig. 3-17

35. WHITE BALANCE ADJUSTMENT

- 1) SCREEN (G_2) adjustment
 1. Confirm that G_1 line voltage is 30 ± 5 Vdc.
 2. Adjust CUT OFF VR (R,B) so that R,B cathode voltage becomes 180 V DC.
Adjust with G_2 VR(RV701) immediately prior to the disappearing of the luminescent line.
- 2) W/B adjustment
 1. Input a all white signal.
 2. Set the PICTURE control to minimum and turn the BRIGHT control normal.
 3. Set RV705 CUT OFF (R) and RV703 CUT OFF (B) to minimum.
 4. Turn RV706 (SUB BRT) slowly to obtain a faintly visible cross-hatch.
Note the color that first becomes visible by turning RV706.
 5. Adjust the other two CUT OFF controls for best white balance (neutral gray) of the faint crosshatch.
 6. Set the PICTURE control maximum.
Observe the screen and adjust the RV1301 (G.H/L), RV1302 (B.H/L) controls for best white balance.
 7. Repeat steps 1, through 7.

C Board

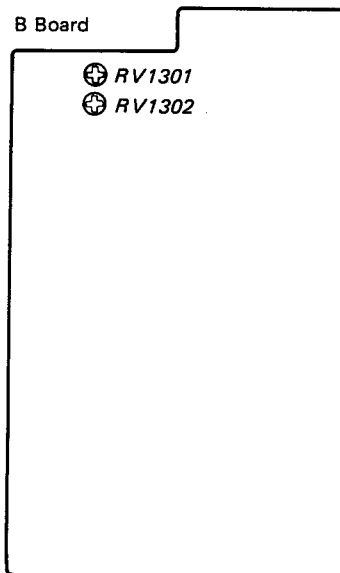


(Component side)

RV701 (SCRN)
RV703 (B. CUT OFF)
RV705 (R. CUT OFF)
RV706 (SUB BRT)

Fig. 3-18.

B Board



(Component side)

RV1301 (G.H/L)
RV1302 (B.H/L)

Fig. 3-19.

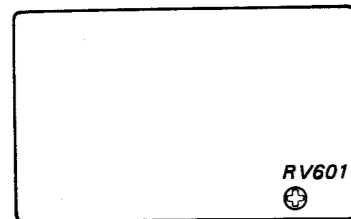
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. FA BOARD ADJUSTMENT

+B Line Adjustment

1. Supply 220V ac to with variable auto-transformer.
2. Adjust RV601 so that the +B line is $140V \pm 0.5V$.

FA Board



RV651 (+B ADJ)
RV652 (REF ADJ)

(Component side)

4-2. D AND D3 BOARD ADJUSTMENTS

Horizontal Position Adjustment

1. Check that H center moves to the right and left with horizontal position VR (RV1503), then adjust horizontal position to center.

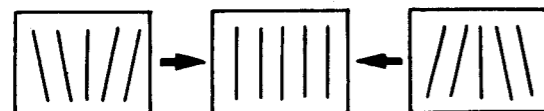
HV REG. ADJUSTMENT

1. Set the PICTURE control to maximum and BRIGHTNESS control for the RESET position.
2. Adjust HV REG voltage to $1.0 \pm 0.1 V$ dc with RV1510.

Picture Distortion Adjustment

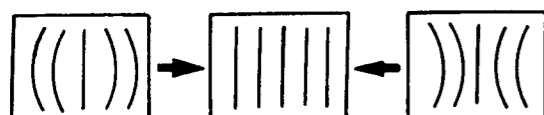
1. Input a PAL color bar signal equivalent to a crosshatch signal.
2. Confirm that the voltage of connector D-10 is less than 9.98V dc when the RV1510 (HV REG VR), with fully clockwise.

PIN PHASE (RV2603) D3 Board



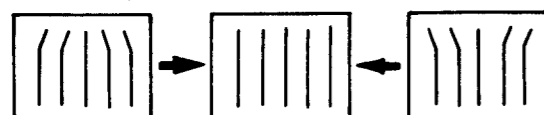
(Note: NTSC PIN PHASE RV-2604)

PIN AMP (RV2605) D3 Board



(Note: NTSC PIN AMP RV-2606)

TOP PIN (RV2601) D3 Board



BOTTOM PIN (RV2602) D3 Board



3. Adjust RV1505 (H. SIZE) so that H. SIZE is best.
4. Adjust RV1503 (H. CENT) so that horizontal position is center.
5. Adjust RV501 (V. SIZE) so that V. SIZE is best.
6. Adjust RV503 (V. CENT) so that V. CENT is best.
7. Adjust RV1506 (PICTURE AMP) so that picture center is best.

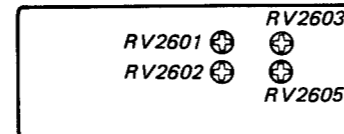
H. FREQ ADJUSTMENT

1. Input a color bar signal and short between IC1501 pins ① and ①.
2. Adjust RV1501 (H. FREQ VR) so that picture flow is as shown in figure.
3. After adjustment, remove the connections in step 1.



fo: suitable

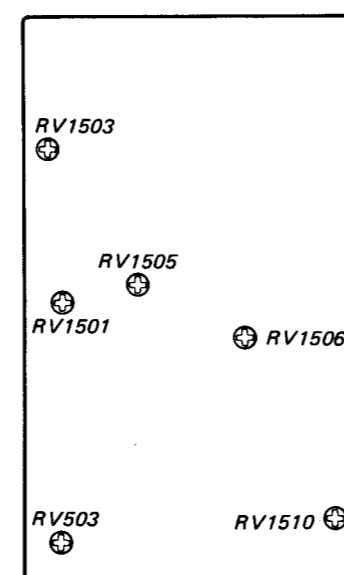
D3 Board



(Component side)

RV2601 (TOP PIN)
RV2602 (BOTTOM PIN)
RV2603 (PIN PHASE 50)
RV2605 (PIN AMP 50)

D Board



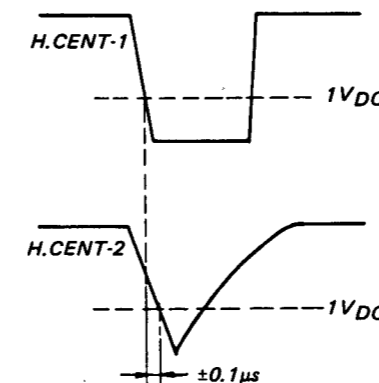
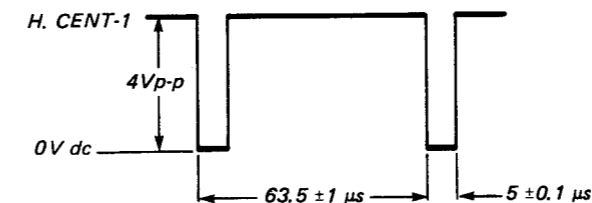
(Component side)

RV503 (V. CENT)
RV1501 (H. FREQ)
RV1503 (H. CENT)
RV1505 (H. SIZE)
RV1506 (PICTURE AMP)
RV1510 (H. V REG)

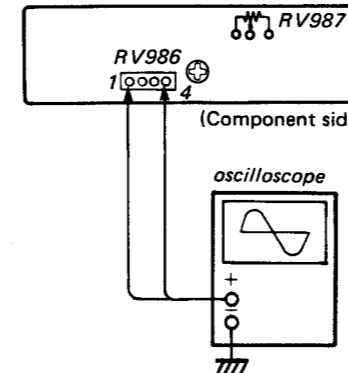
4-3. HC BOARD ADJUSTMENT

H. CENTER Adjustment (DIGITAL RGB)

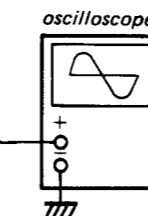
1. Connect to the digital RGB output connector of a microcomputer.
2. Press to select the RGB mode.
3. Turn the H. CENT VR (RV987--- Rear control panel) to center position.
4. Connect the oscilloscope to pin ④ of HC-2 connector and pin ① of HC-2 connector.
5. Adjust RV986 (H. CENT-2) so that the phase difference level is $\pm 0.1 \mu\text{sec}$.



HC Board



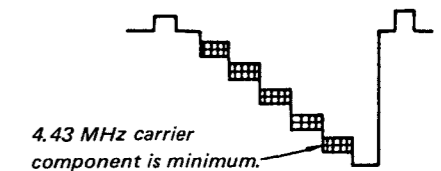
RV986 (H. CENT-2)
RV987 (H. CENT VR)



4-4. B BOARD ADJUSTMENTS

Y Chroma Adjustment

1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin ③⑤ of IC301, and adjust so that chroma component is minimum on pin ③⑤ of IC301 waveform while tracking with L451 (4.43 MHz).



3. Input a NTSC (3.58) color bar signal.
4. Connect an oscilloscope to pin ③⑤ of IC301 and adjust so that chroma component is minimum on pin ③⑤ of IC301 waveform while tracking with L452.

COLOR BALANCE Adjustment

1. Input a SECAM color bar signal and set PICTURE to maximum. Press "RESET" to set color to standard state.
2. Observe blue output (TP33) waveform on the oscilloscope and adjust L421 (B-Y) so that the black portion of the color bar is the same level as the pedestal.



3. Observe blue output (TP31) waveform on the oscilloscope and adjust L405 (R-Y) so that the black portion of the color bar is the same level as the pedestal.



SECTION 5 DIAGRAMS

ANTI-PAL, LINE CRAWLING Adjustment

1. Input a PAL color bar signal and set PICTURE to maximum.
Press "RESET" to set COLOR, HUE and BRT to standard state.
2. Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture. If there is, adjust to remove the anti-PAL color sides while tracking with RV303.
3. Adjust T301 (DAT) for minimum line crawling.
4. Confirm the anti-PAL adjustment in 2, and repeat 3, and 1 if necessary.

APC Adjustment

4.43 adjustment

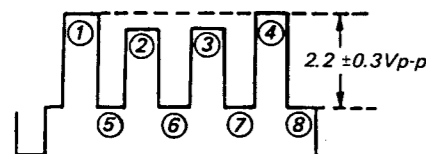
1. Input a PAL color bar signal.
2. Short pin (11) and pin (12) on IC301.
3. Adjust CT443 to get color sync.

3.58 adjustment

4. Input a NTSC (3.58 MHz) color bar signal.
5. Adjust CT358 to get color sync.

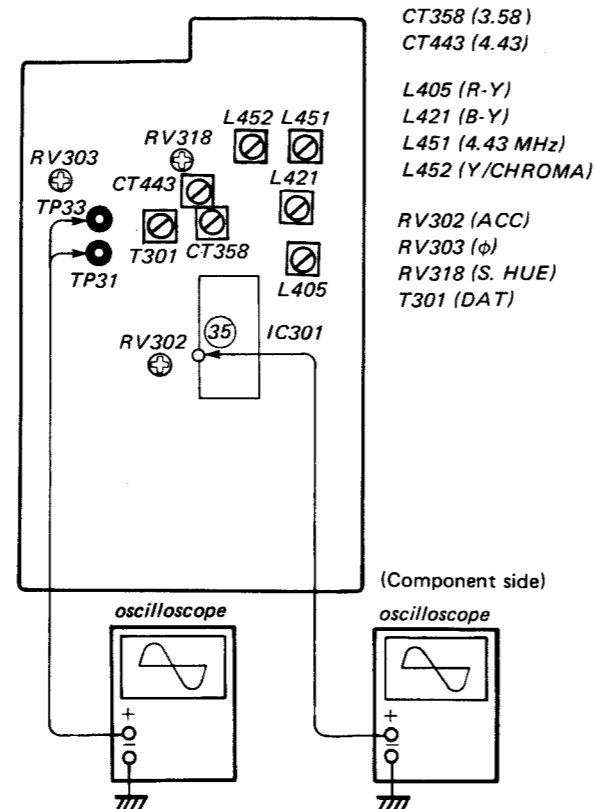
ACC, HUE CENT Adjustment

1. Input a PAL color bar signal and set PICTURE maximum.
2. Adjust RV302 (ACC ADJ) so that blue output (TP33) waveform is as shown in figure.

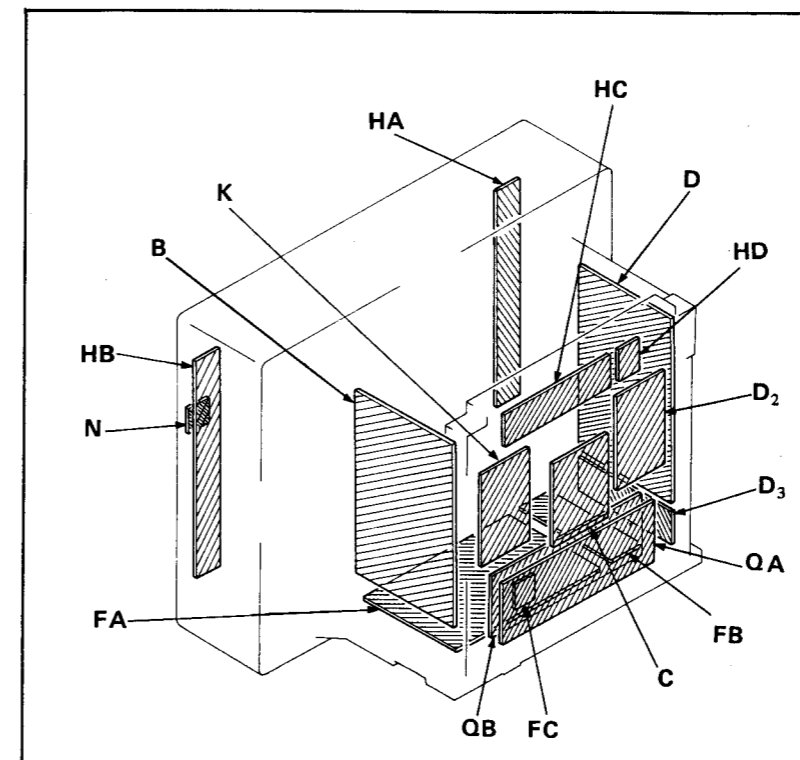


3. Input a NTSC (3.58 or 4.43) color bar signal and set PICTURE to maximum.
Press "RESET" to set COLOR, HUE and BRIGHTNESS to standard state.
4. Adjust RV318 (S. HUE) so that blue output (TP33) waveform is as shown in figure.

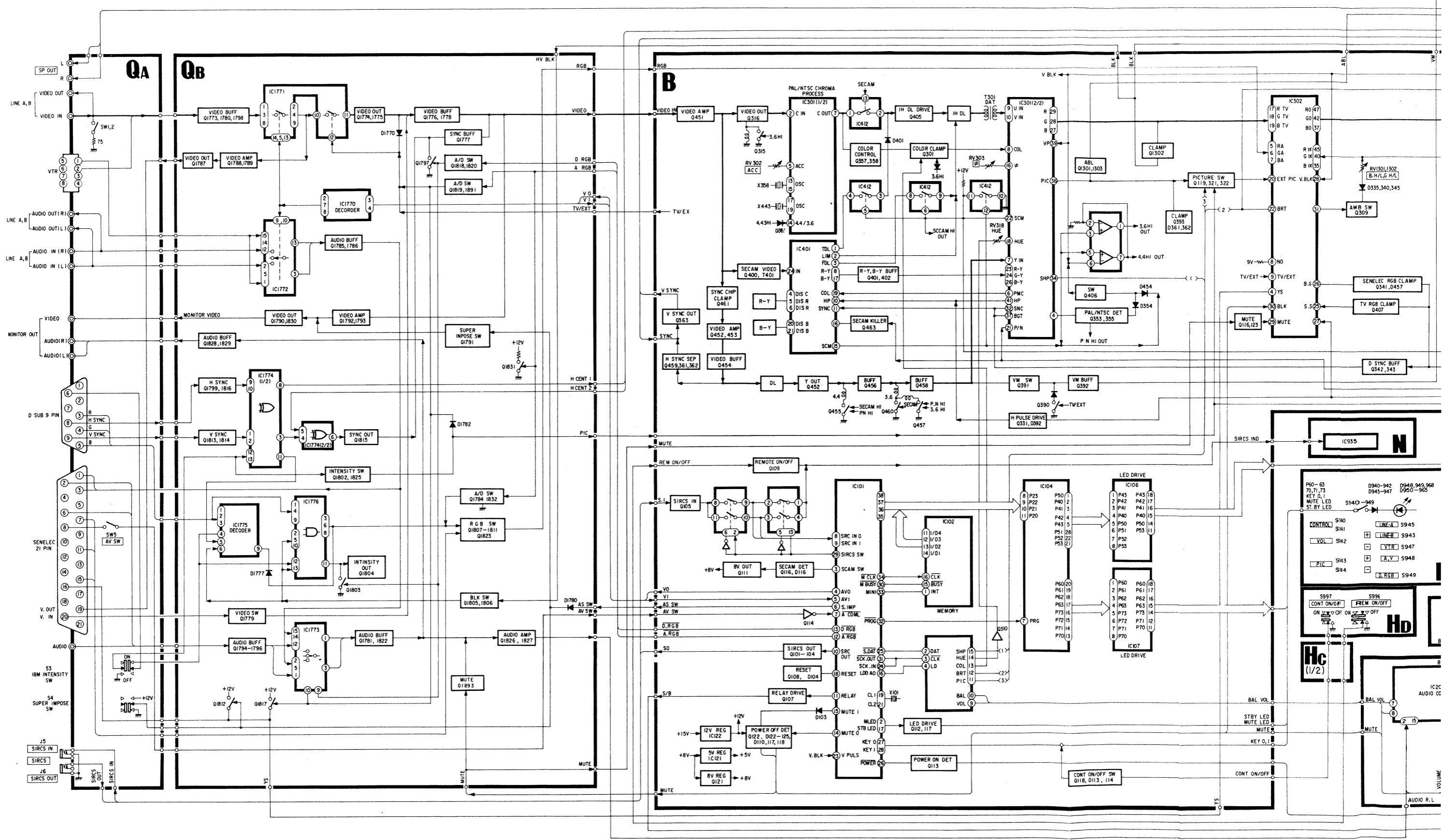
B Board

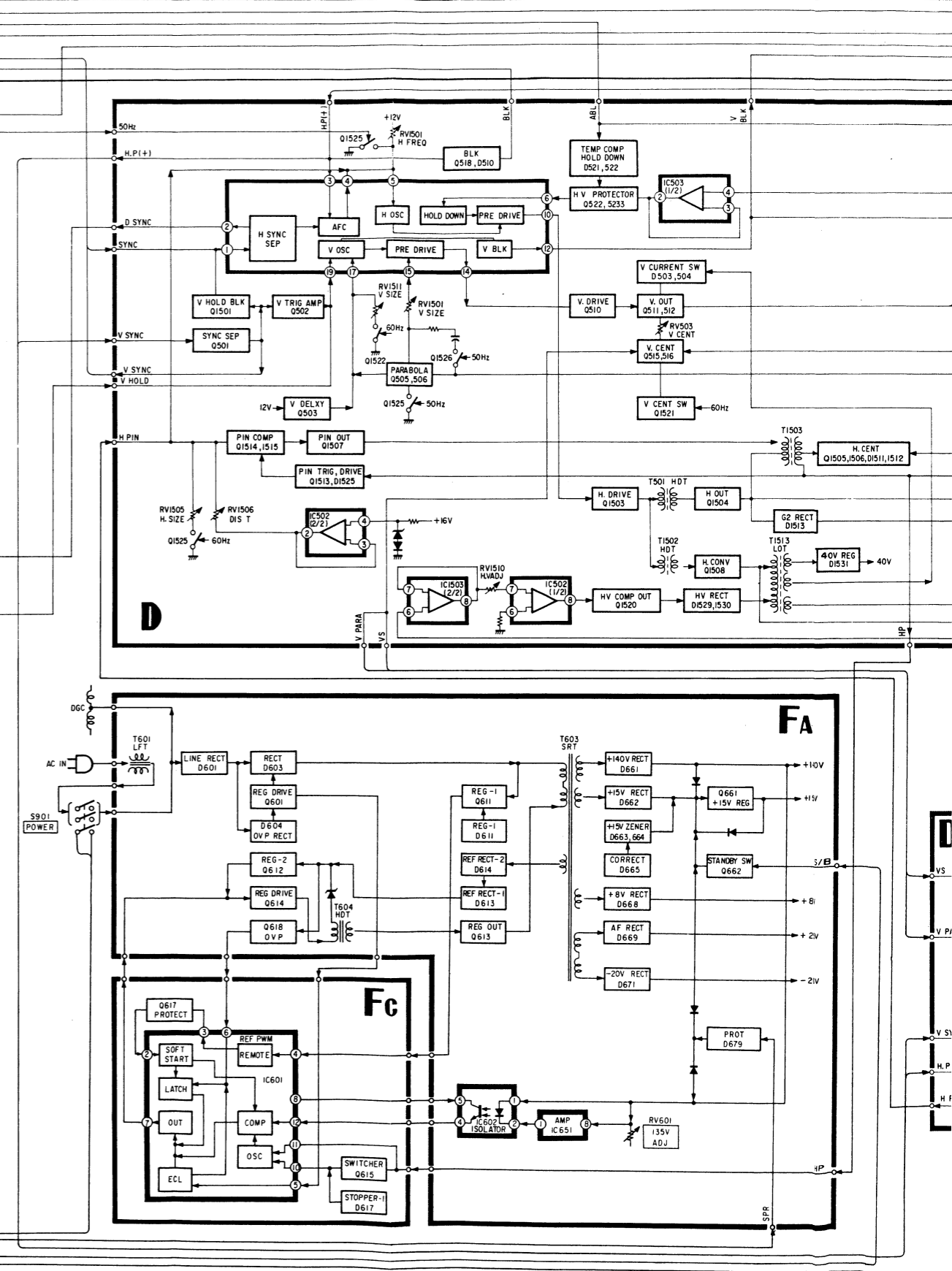
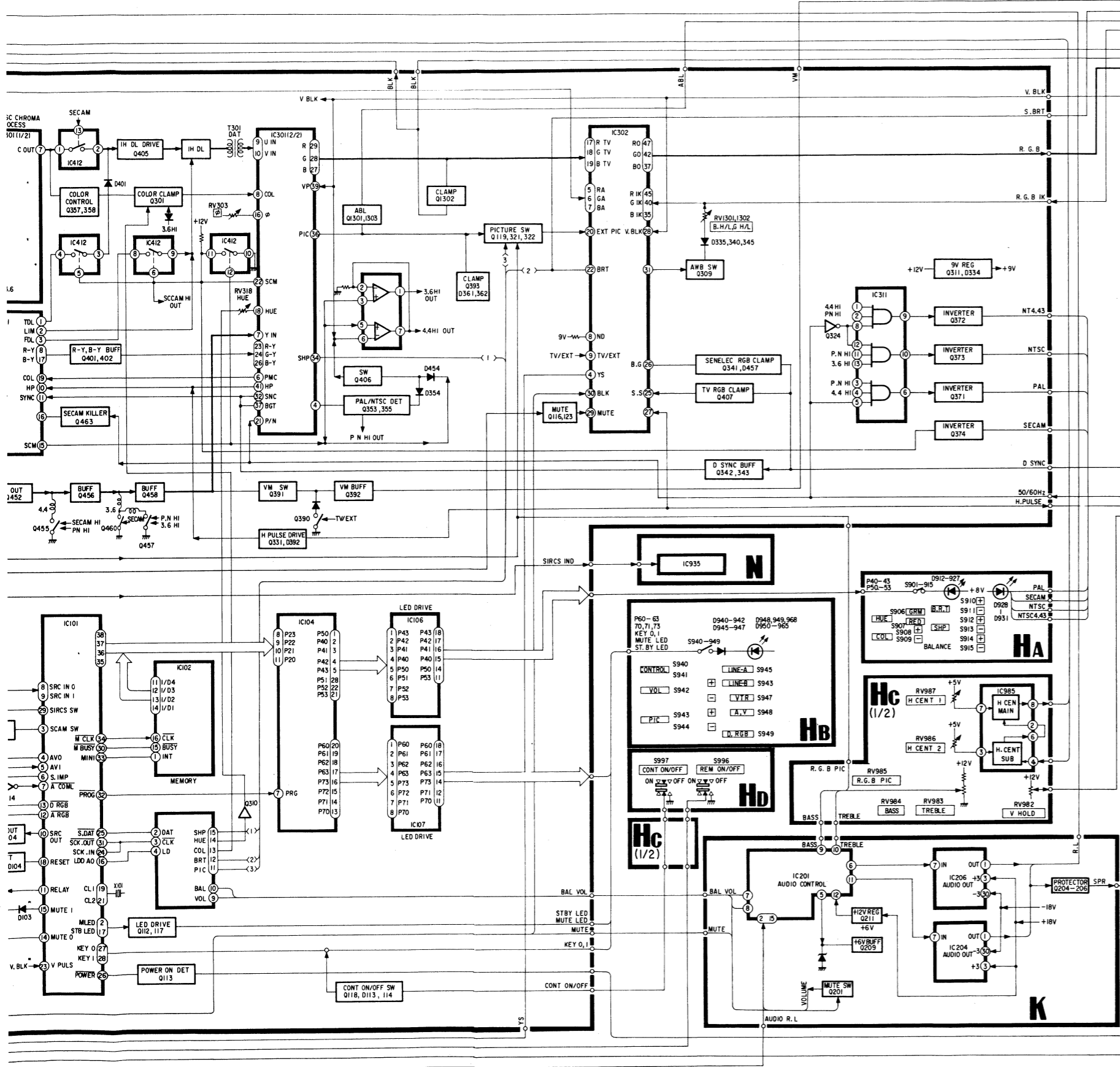


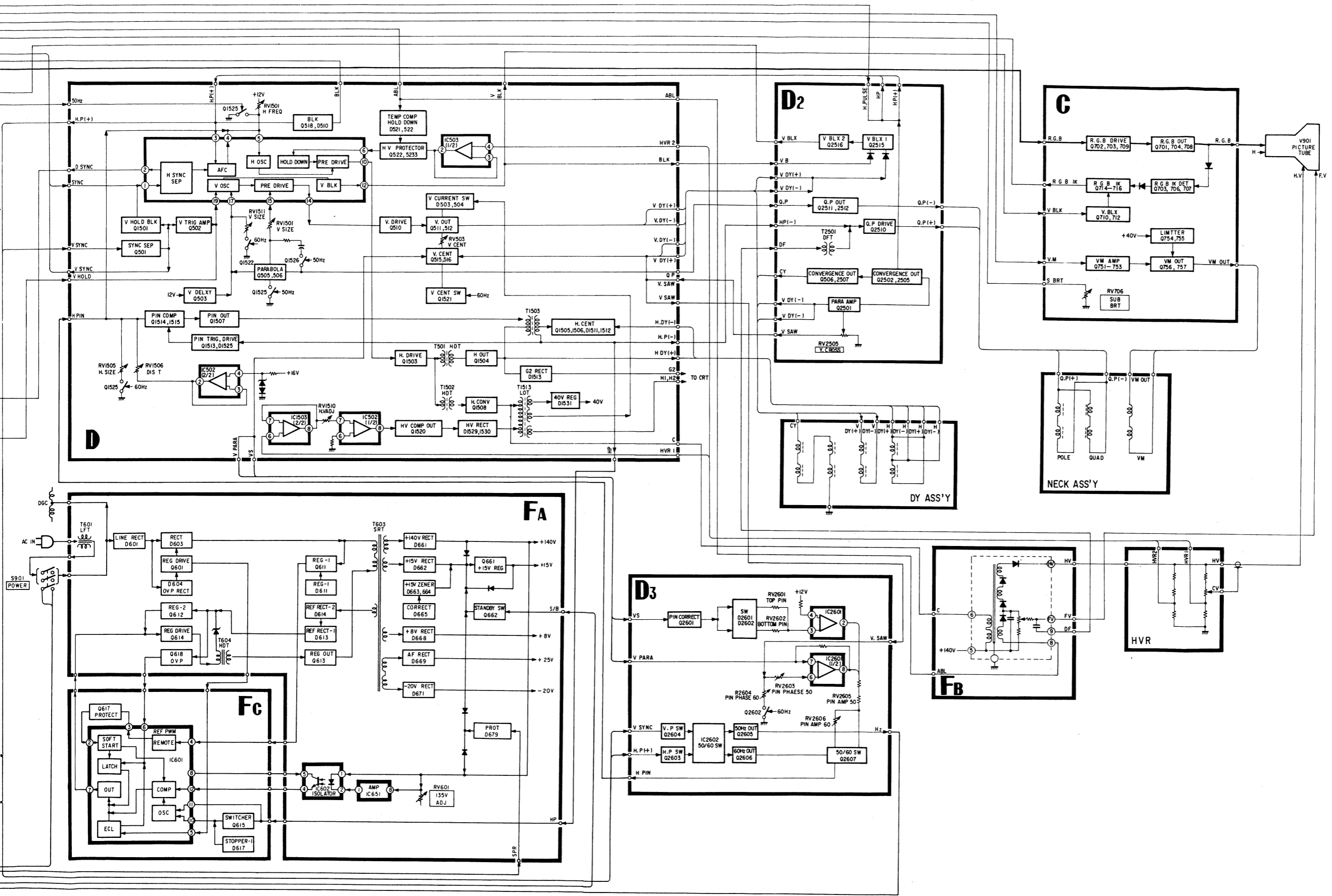
5-1. CIRCUIT BOARDS LOCATION



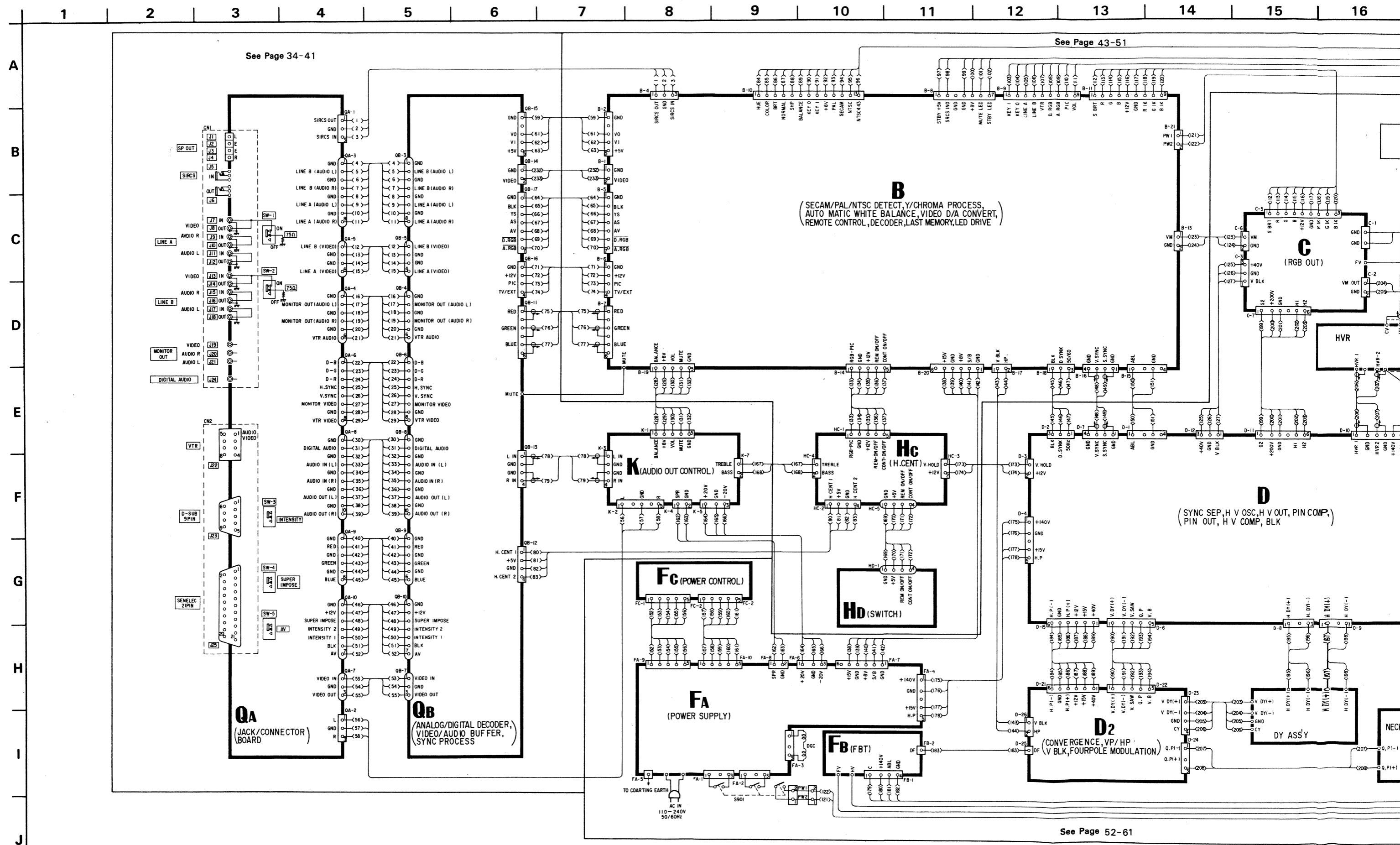
5-2. BLOCK DIAGRAM

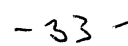


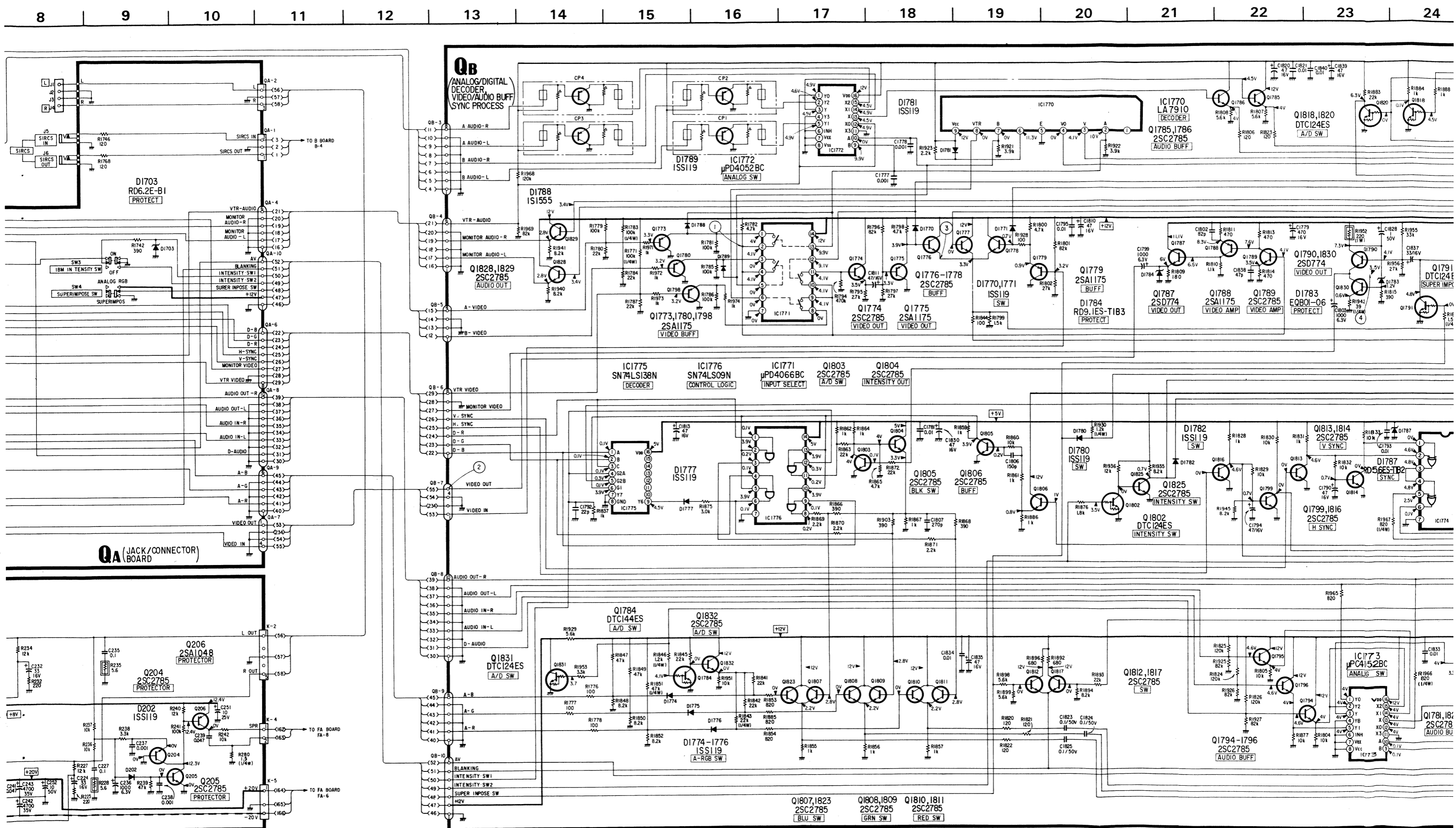


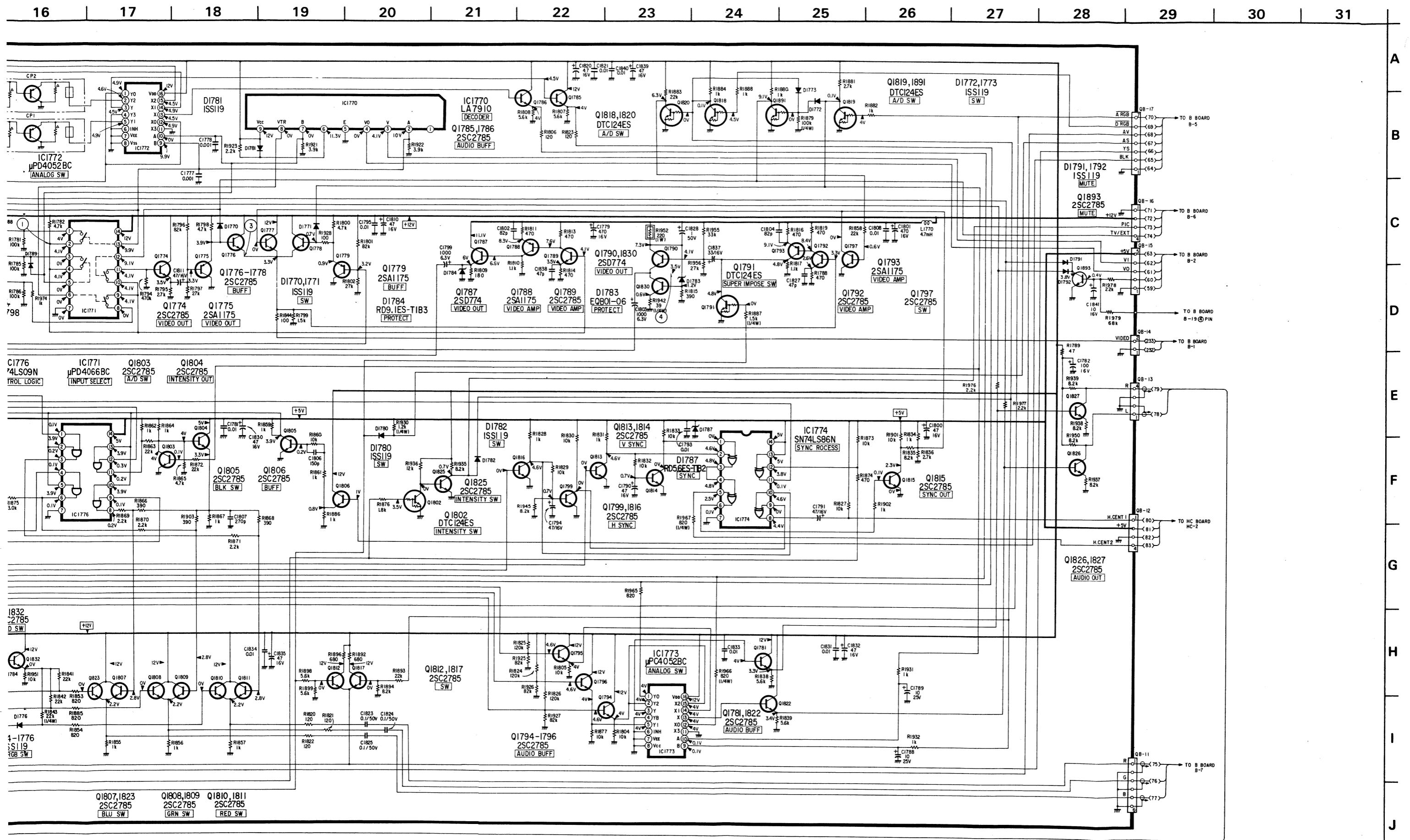


5-3. FRAME SCHEMATIC DIAGRAMS









(ANALOG/DIGITAL RECORDER
VIDEO/AUDIO BUFFER,
SYNC PROCESS)

QB

(JACK/CONNECTOR)

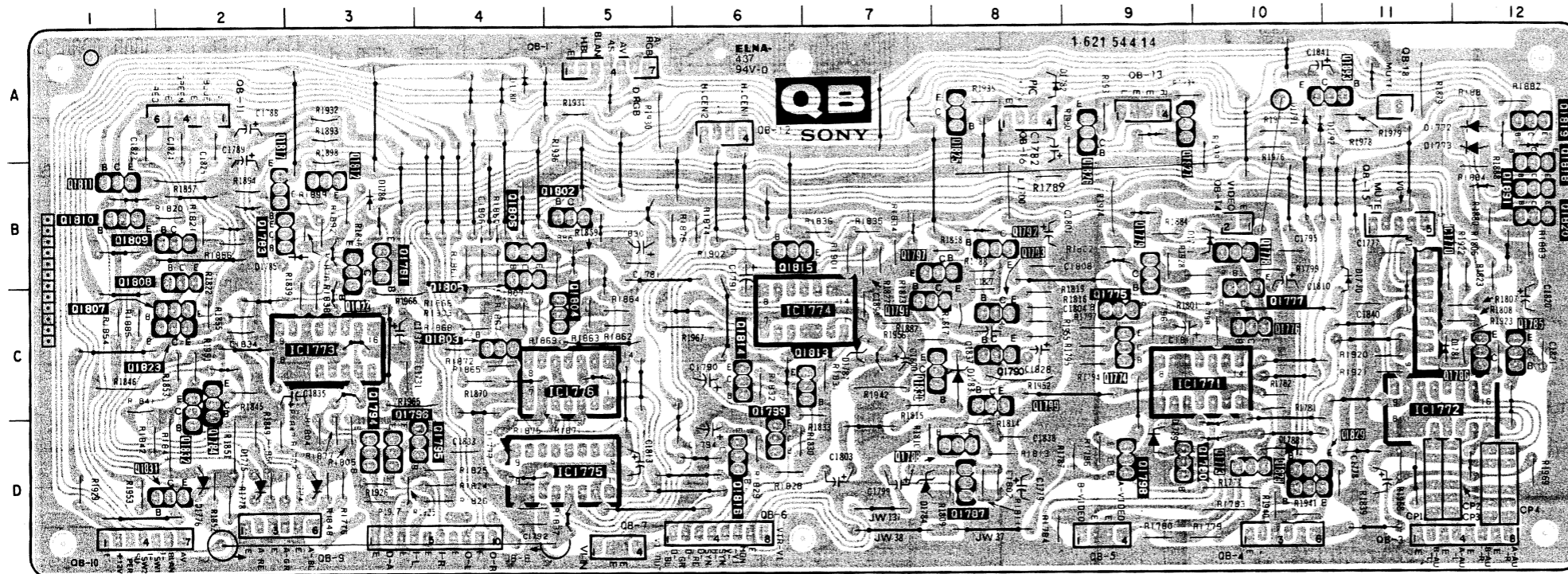
QA

QB

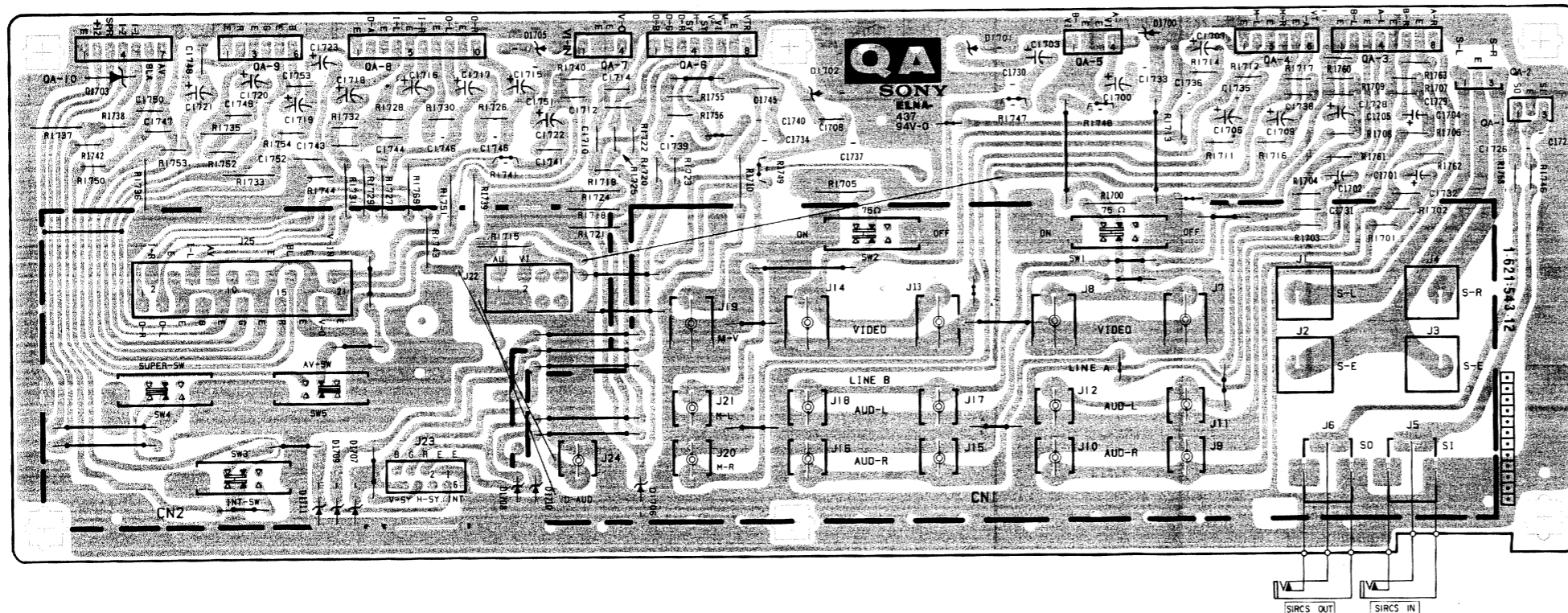
QA

—Conductor Side—

—QB Board—



—QA Board—



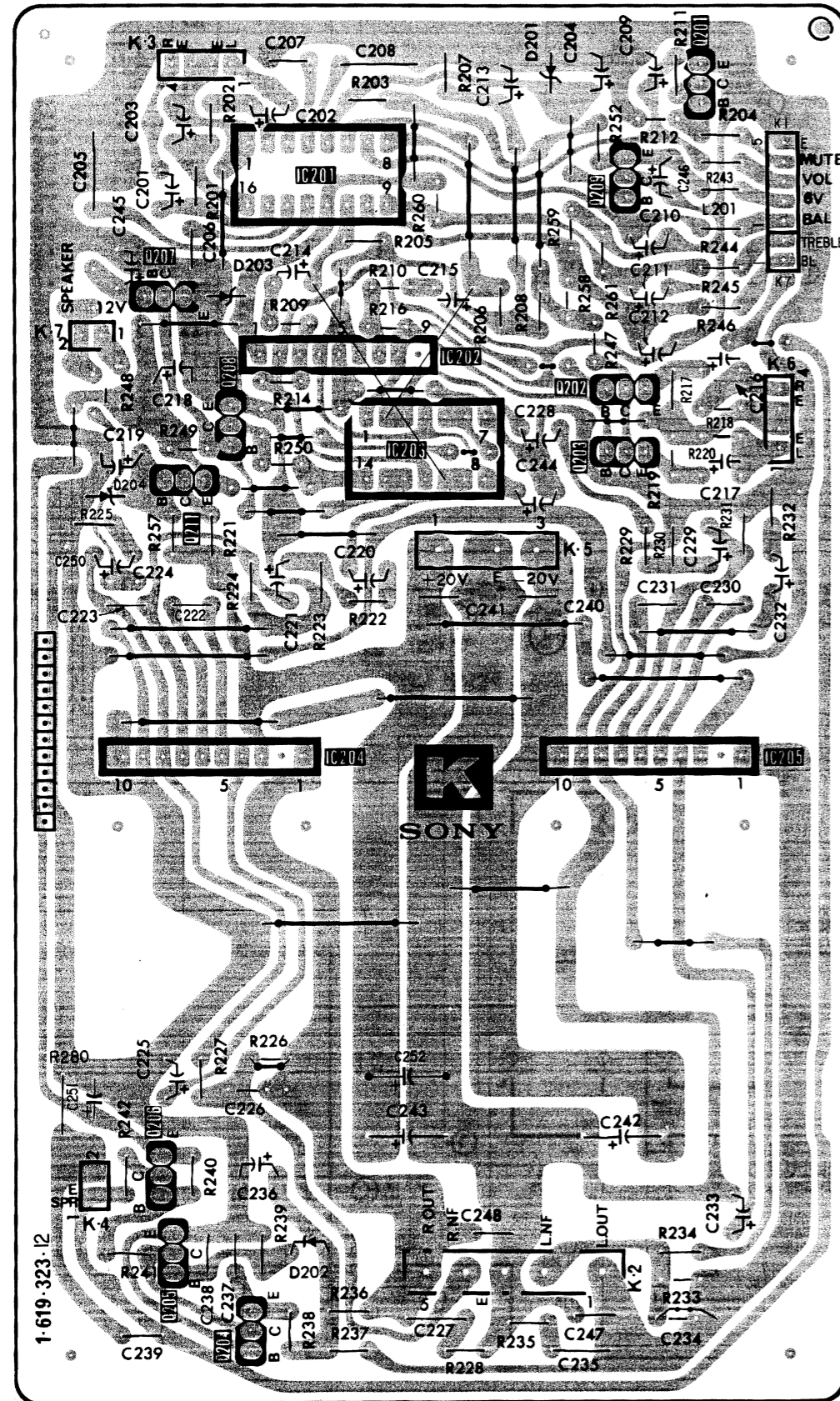
QB board

IC		DIODE	
IC1770	C11	D1770	B11
IC1771	C10	D1771	B10
IC1772	C11	D1772	A12
IC1773	C3	D1773	A12
IC1774	C7	D1774	D3
IC1775	D5	D1775	D2
IC1776	C5	D1776	D2
TRANSISTOR		D1777	D4
		D1780	A4
Q1773	D10	D1781	C11
Q1774	C9	D1782	A8
Q1775	C9	D1783	C8
Q1776	C10	D1784	D7
Q1777	C10	D1785	B3
Q1778	B10	D1786	B3
Q1779	B9	D1787	C7
Q1780	D9	D1788	D10
Q1781	B3	D1789	D9
Q1783	B2	D1791	A10
Q1784	C2	D1792	A10
Q1785	C12		
Q1786	C12		
Q1787	D8		
Q1788	D8		
Q1789	C8		
Q1790	C8		
Q1791	C7		
Q1792	B8		
Q1793	C8		
Q1794	D3		
Q1795	D4		
Q1796	D3		
Q1797	B8		
Q1798	D9		
Q1799	D6		
Q1802	B5		
Q1803	C4		
Q1804	C5		
Q1805	B4		
Q1806	B4		
Q1807	C2		
Q1808	B2		
Q1809	B2		
Q1810	B1		
Q1811	B1		
Q1812	B3		
Q1813	C7		
Q1814	C6		
Q1815	B6		
Q1816	D6		
Q1817	B2		
Q1818	B12		
Q1819	A12		
Q1820	B12		
Q1822	B3		
Q1823	C2		
Q1825	A8		
Q1826	A9		
Q1827	A9		
Q1828	D10		
Q1829	D10		
Q1830	C8		
Q1831	D2		
Q1832	C2		
Q1891	B12		
Q1893	A11		

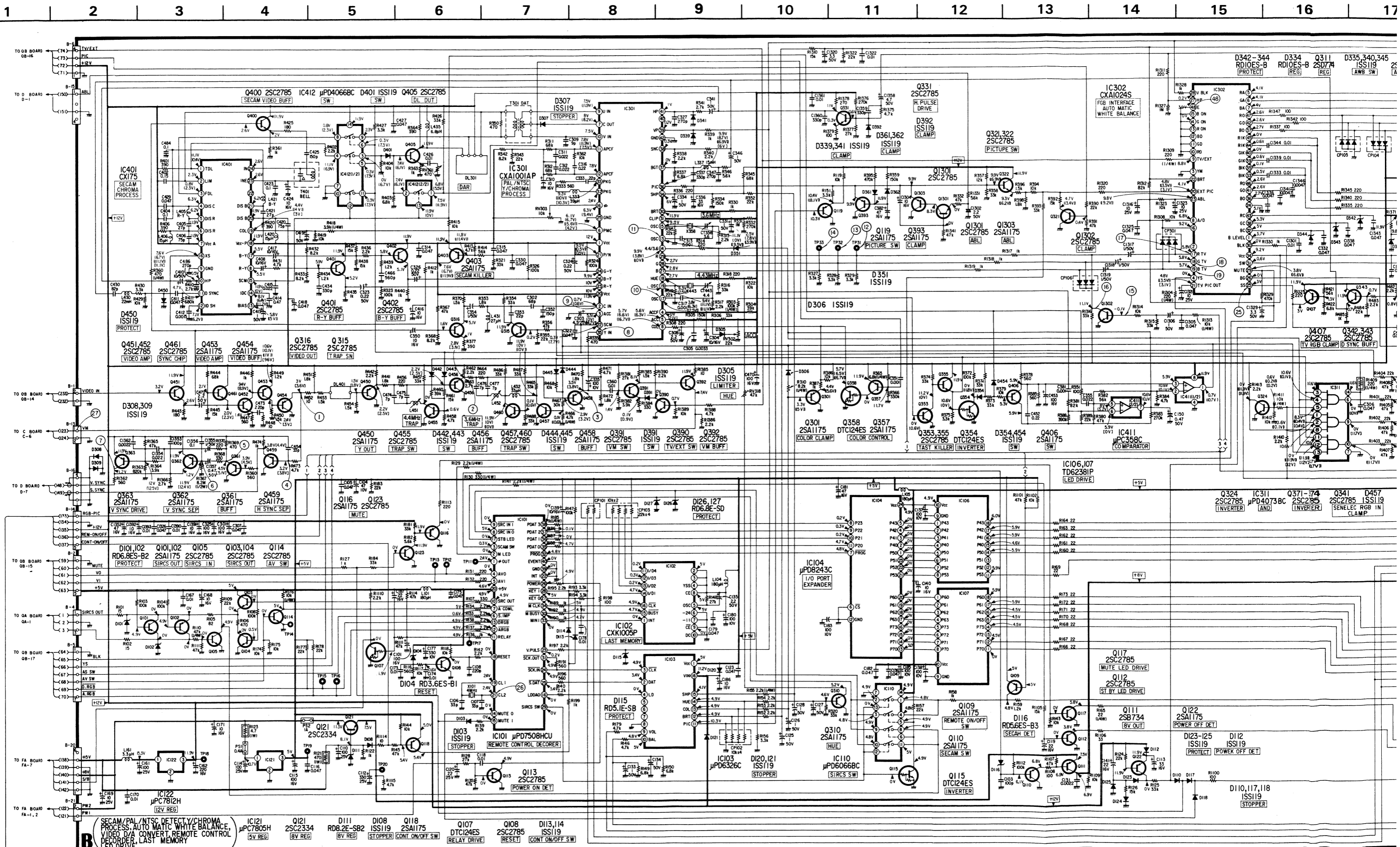
K

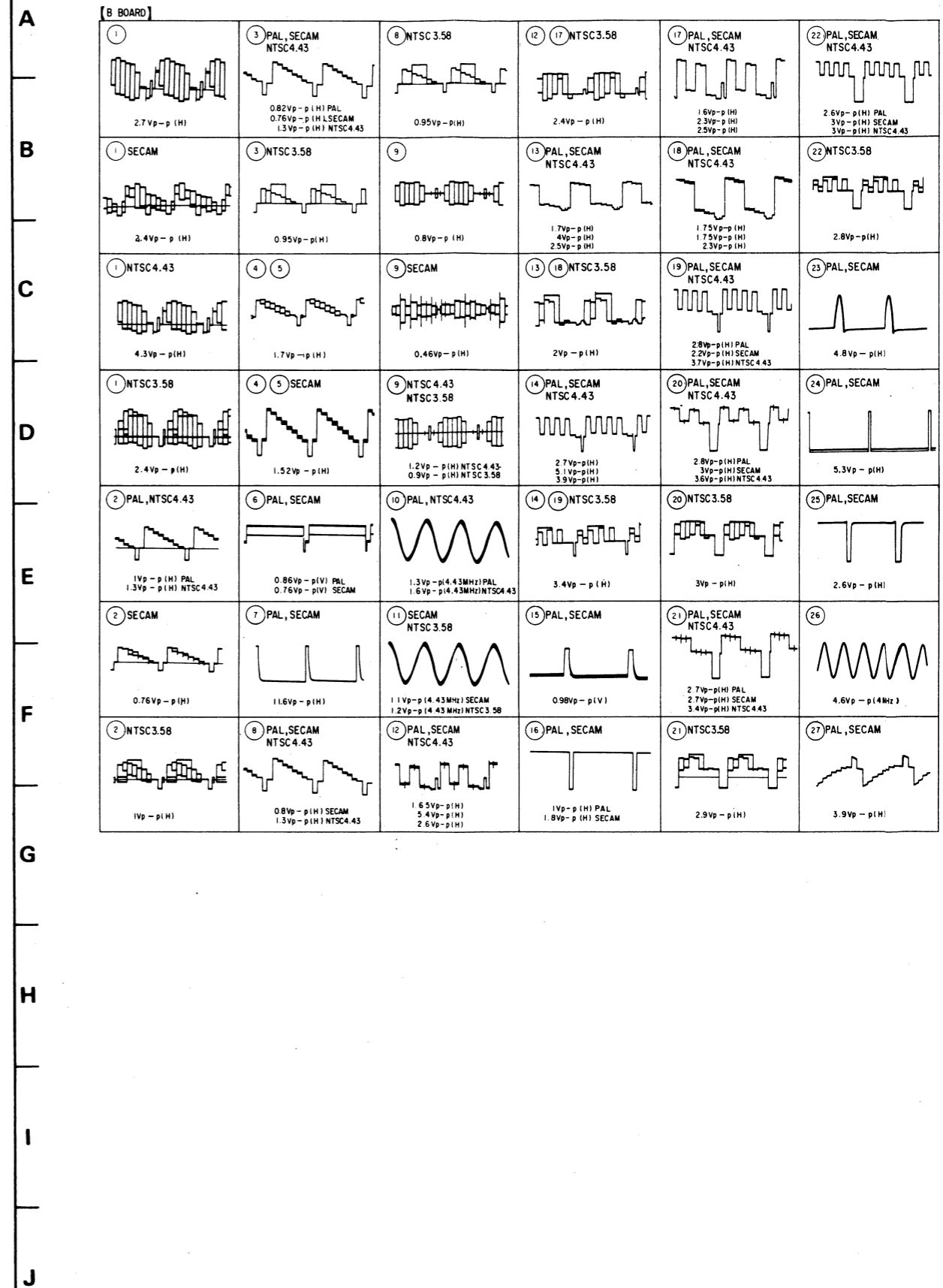
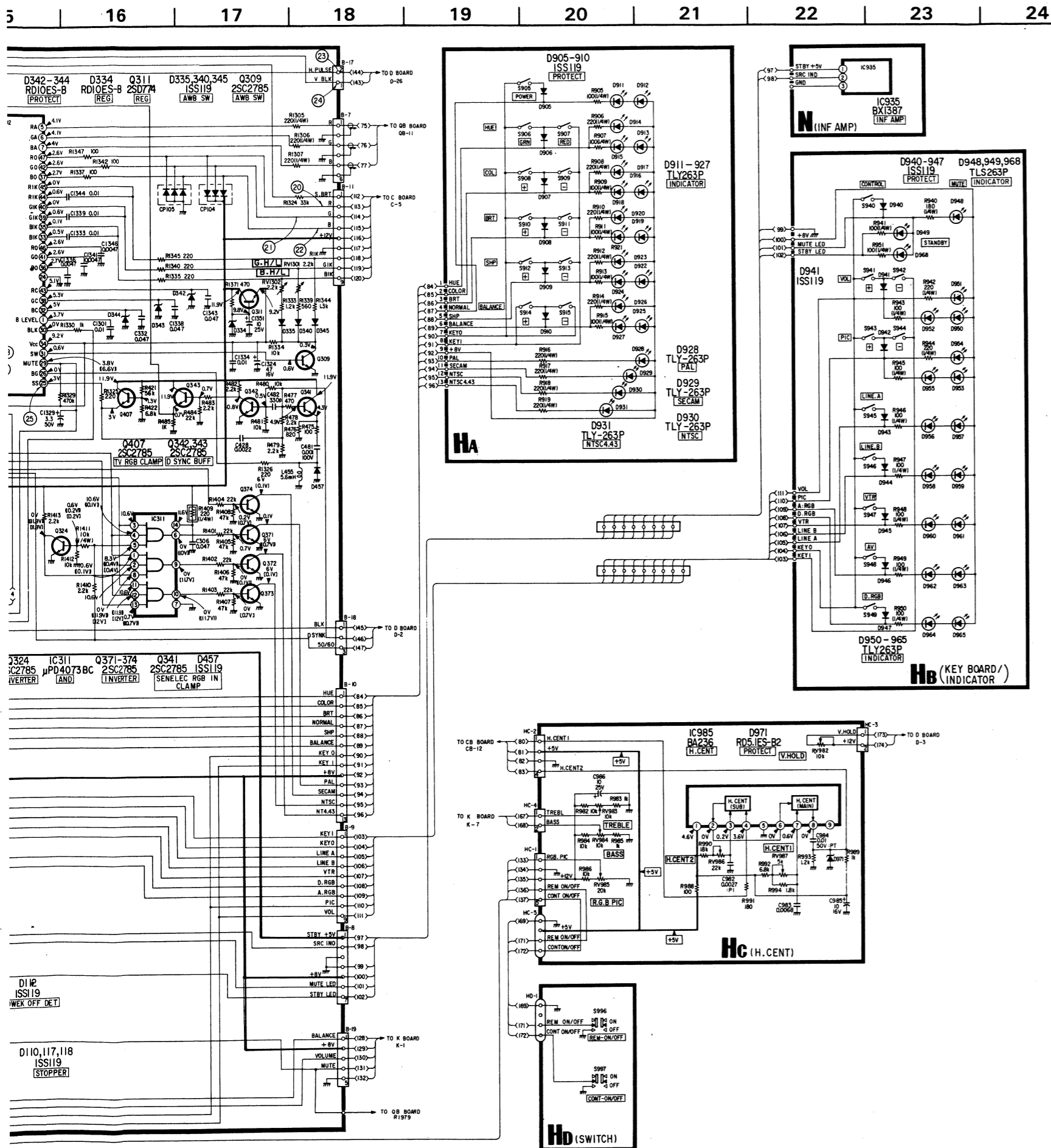
(AUDIO OUT CONTROL)

—K Board—



K





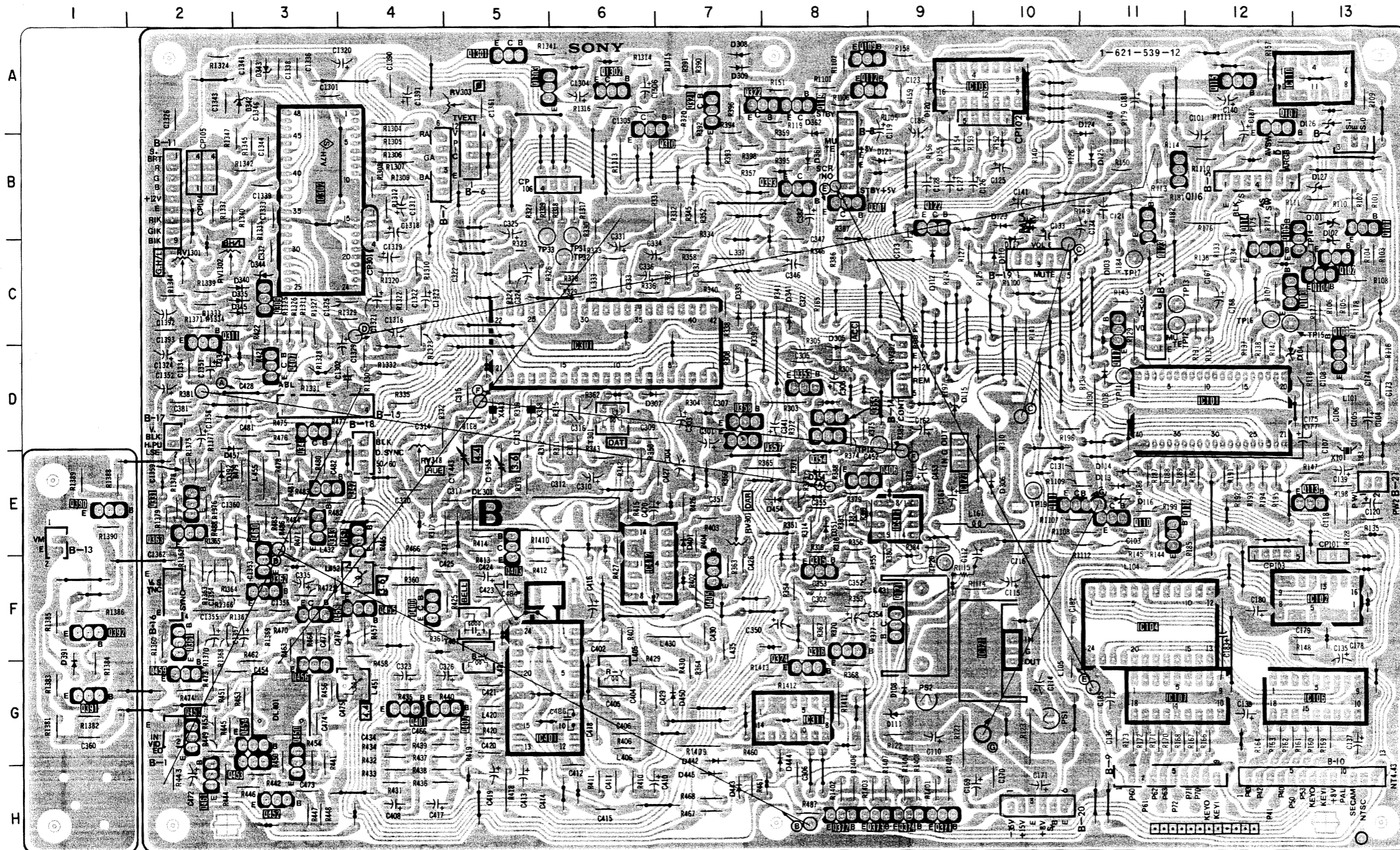
(SECAM/PAL/NTSC DETECT, Y/CHROMA PROCESS,
AUTOMATIC WHITE BALANCE, VIDEO D/A CONVERT,
REMOTE CONTROL DECODER, LAST MEMORY, LED DRIVE)

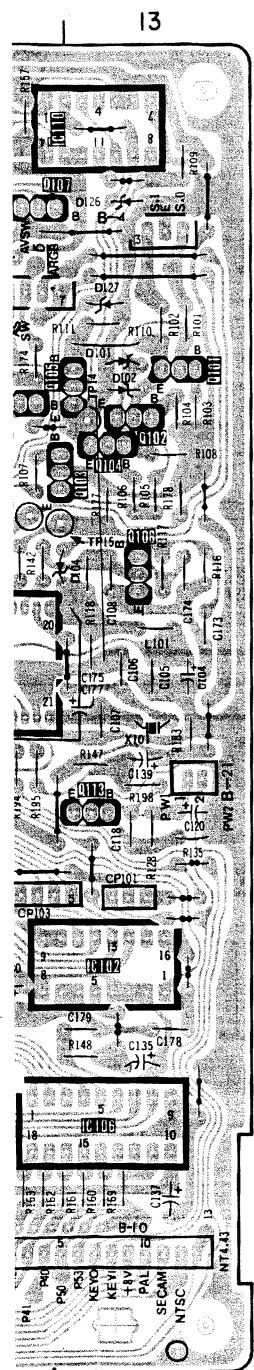
B

B

B Board

IC			
IC101	D12	Q450	G3
IC102	F13	Q451	G2
IC103	A10	Q452	H3
IC104	F11	Q453	G3
IC106	G13	Q454	G3
IC107	G11	Q455	F4
IC110	A13	Q456	G3
IC121	F10	Q457	E4
IC122	E9	Q458	F3
IC301	C6	Q459	G2
		Q460	F3
		Q461	H2
IC302	B3	Q1301	A5
IC311	G8	Q1302	A6
IC401	G5	Q1303	A5
IC411	E9		
IC412	F6		
DIODE			
TRANSISTOR			
Q101	B13	D101	B13
Q102	C13	D102	B13
Q103	C12	D103	C11
Q104	C13	D104	D12
Q105	B12	D108	G9
Q107	A12	D110	C10
Q108	D13	D111	G9
Q109	A8	D112	C9
Q110	E11	D113	E11
Q111	E10	D114	E11
Q112	A8	D115	D9
Q113	E13	D116	E11
Q114	C12	D117	C10
Q115	A12	D118	D11
Q116	B11	D120	A9
Q117	C11	D121	B9
Q118	E11	D123	B10
Q119	A8	D124	A10
Q121	F9	D125	B11
Q122	B9	D126	A13
Q123	B11	D127	B13
Q301	B8	D305	D8
Q309	C3	D306	E10
Q310	A6	D307	D6
Q311	C2	D308	A7
Q315	F8	D309	A7
Q316	F8	D334	D2
Q321	A7	D335	C3
Q322	A7	D339	C7
Q324	G8	D340	C3
Q331	E2	D341	C8
Q341	D3	D342	A3
Q342	E3	D343	A3
Q343	E3	D344	C3
Q353	D8	D345	C3
Q354	D8	D351	E8
Q355	D8	D354	E8
Q357	D7	D361	B8
Q358	D7	D362	A8
Q361	F2	D391	G1
Q362	F3	D392	E2
Q363	E2	D401	E7
Q371	H9	D442	G7
Q372	H8	D443	H7
Q373	H9	D444	G8
Q374	H9	D445	H7
Q390	E1	D450	G7
Q391	G1	D454	E8
Q392	F1	D457	D2
RESISTOR			
Q400	F4	RV301	E7
Q401	G4	RV302	D9
Q402	G4	RV303	A5
Q403	E5	RV318	E4
Q405	F7	RV1301	C2
Q406	E8	RV1302	C2
Q407	D3		





B Board

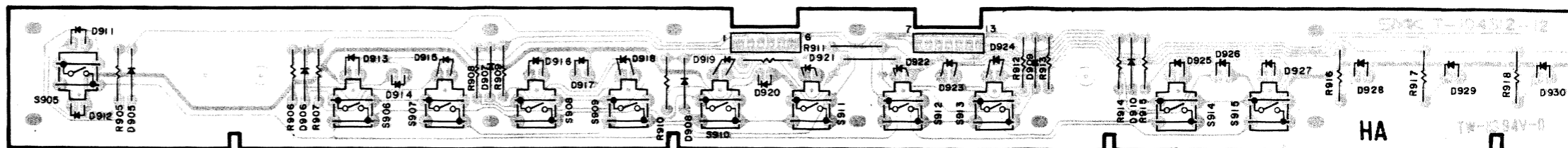
IC			
IC101	D12	Q450	G3
IC102	F13	Q451	G2
IC103	A10	Q452	H3
IC104	F11	Q453	G3
IC106	G13	Q454	G3
IC107	G11	Q455	F4
IC110	A13	Q456	G3
IC121	F10	Q457	E4
IC122	E9	Q458	F3
IC301	C6	Q459	G2
		Q460	F3
		Q461	H2
IC302	B3	Q1301	A5
IC311	G8		
IC401	G5	Q1302	A6
IC411	E9	Q1303	A5
IC412	F6		
TRANSISTOR		DIODE	
Q101	B13	D101	B13
Q102	C13	D102	B13
Q103	C12	D103	C11
Q104	C13	D104	D12
Q105	B12	D108	G9
Q107	A12	D110	C10
Q108	D13	D111	G9
Q109	A8	D112	C9
Q110	E11	D113	E11
Q111	E10	D114	E11
Q112	A8	D115	D9
Q113	E13	D116	E11
Q114	C12	D117	C10
Q115	A12	D118	D11
Q116	B11	D120	A9
Q117	C11	D121	B9
Q118	E11	D123	B10
Q119	A8	D124	A10
Q121	F9	D125	B11
Q122	B9	D126	A13
Q123	B11	D127	B13
Q301	B8	D305	D8
Q309	C3	D306	E10
Q310	A6	D307	D6
Q311	C2	D308	A7
Q315	F8	D309	A7
Q316	F8	D334	D2
Q321	A7	D335	C3
Q322	A7	D339	C7
Q324	G8	D340	C3
Q331	E2	D341	C8
Q341	D3	D342	A3
Q342	E3	D343	A3
Q343	E3	D344	C3
Q353	D8	D345	C3
Q354	D8	D351	E8
Q355	D8	D354	E8
Q357	D7	D361	B8
Q358	D7	D362	A8
Q361	F2	D391	G1
Q362	F3	D392	E2
Q363	E2	D401	E7
Q371	H9	D442	G7
Q372	H8	D443	H7
Q373	H9	D444	G8
Q374	H9	D445	H7
Q390	E1	D450	G7
Q391	G1	D454	E8
Q392	F1	D457	D2
RESISTOR			
Q400	F4	RV301	E7
Q401	G4	RV302	D9
Q402	G4	RV303	A5
Q403	E5	RV318	E4
Q405	F7	RV1301	C2
Q406	E8	RV1302	C2
Q407	D3		

KX-27HG2
RM-668

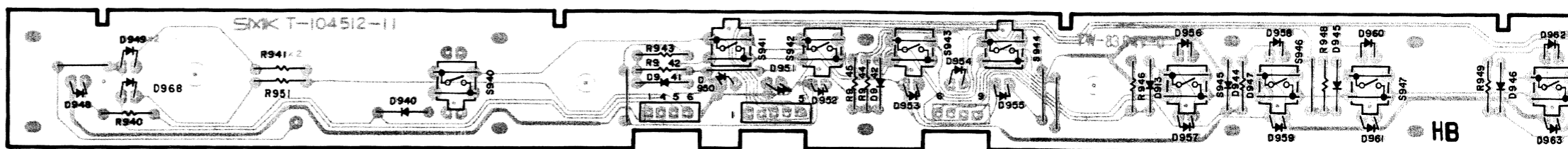
KX-27HG2
RM-668

(KEY BOARD/INDICATOR) **HA** (KEY BOARD/INDICATOR) **HB** (H. CENT) **HC** **HA** **HB** **HC** **HD** (SWITCH) **N** (INF AMP)

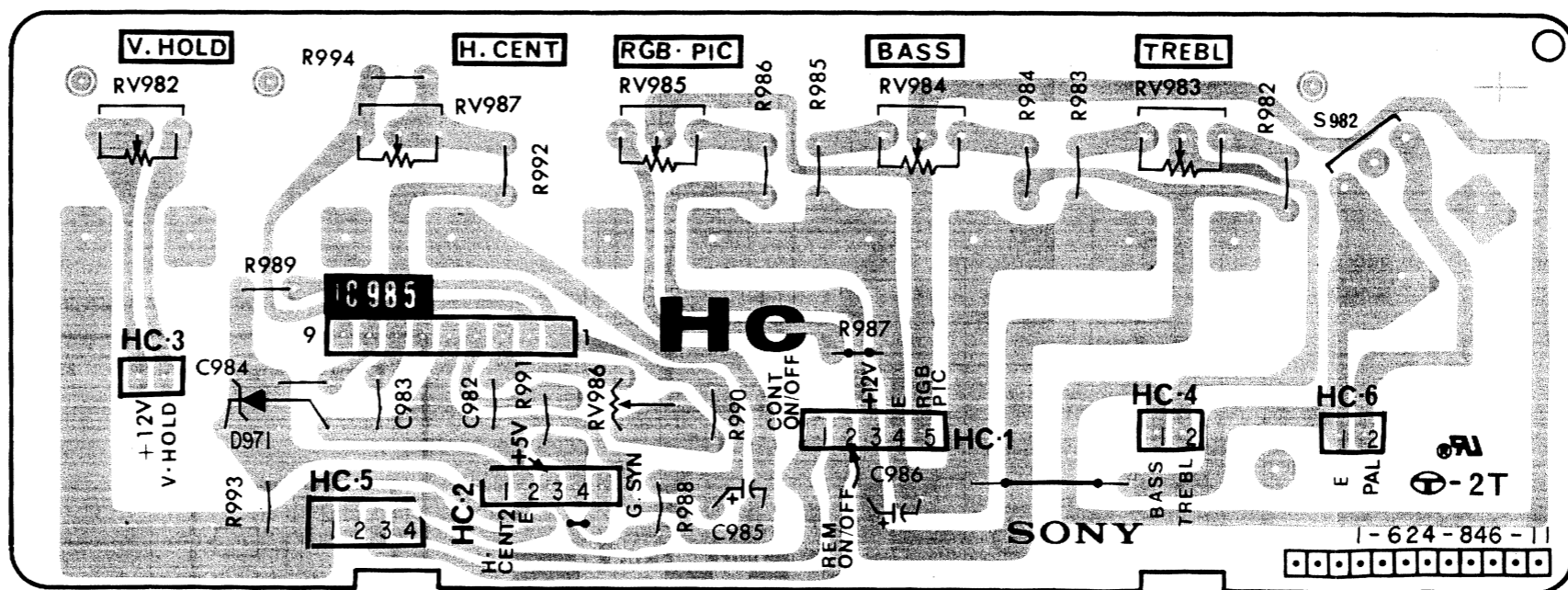
—HA Board—



—HB Board—

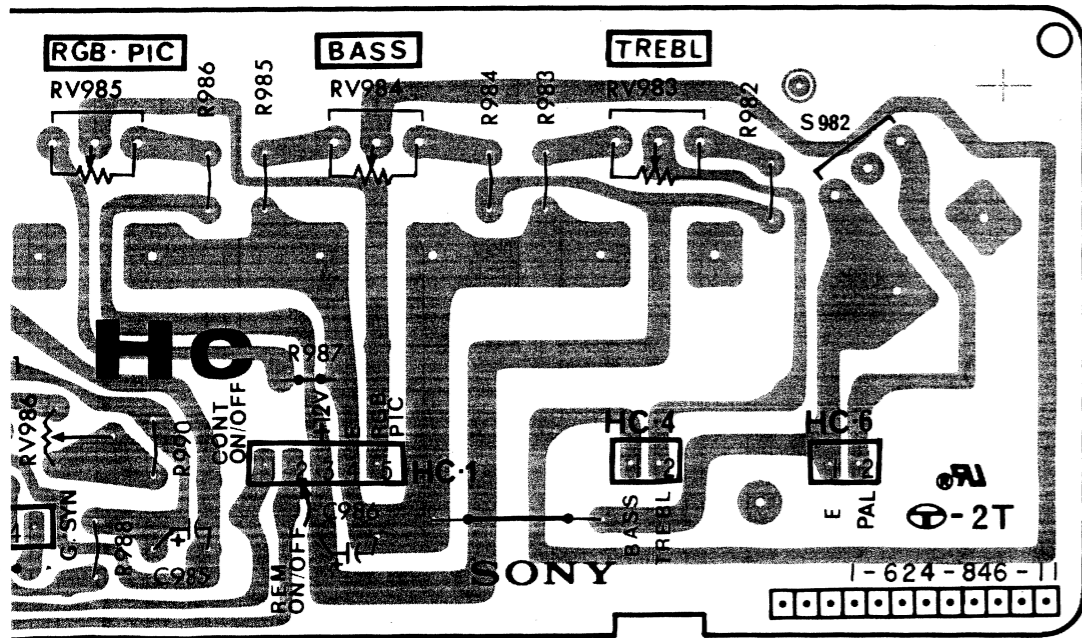
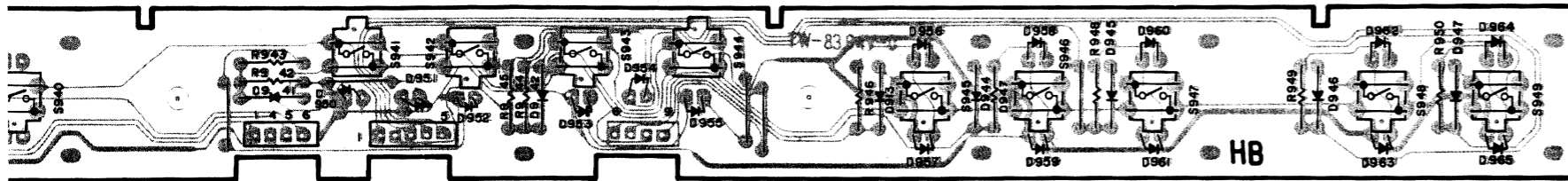
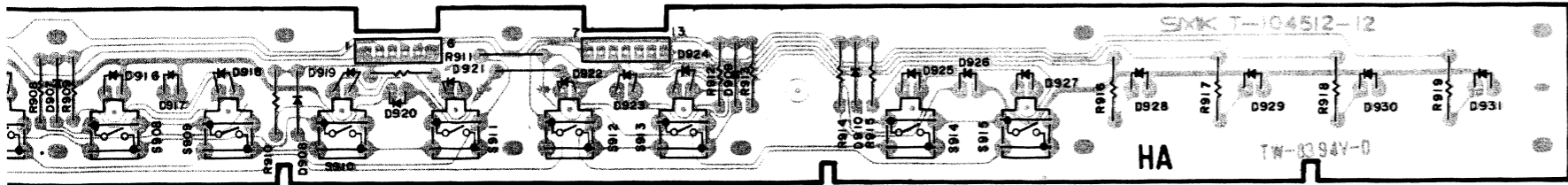


—HC Board—

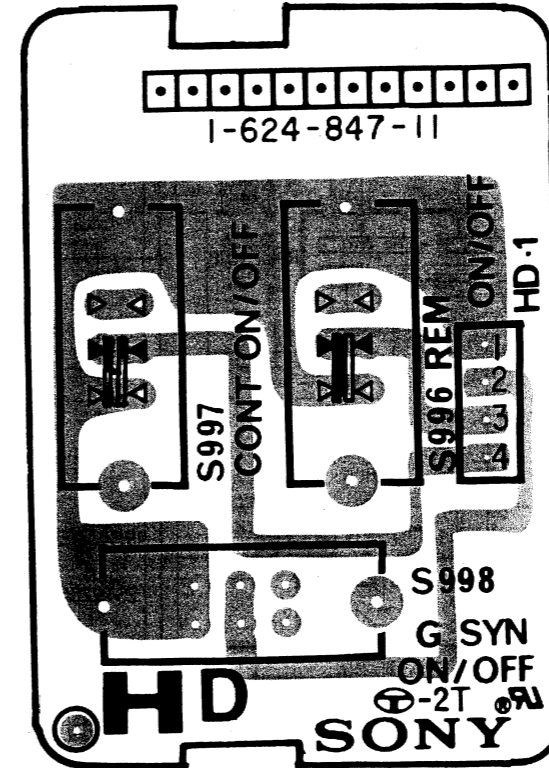


ICATOR) **HB** (H. CENT) **HC** **HA** **HB** **HC** **HD** (SWITCH) **N** (INF AMP)

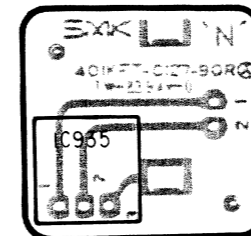
HD **N**

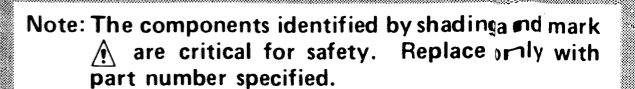


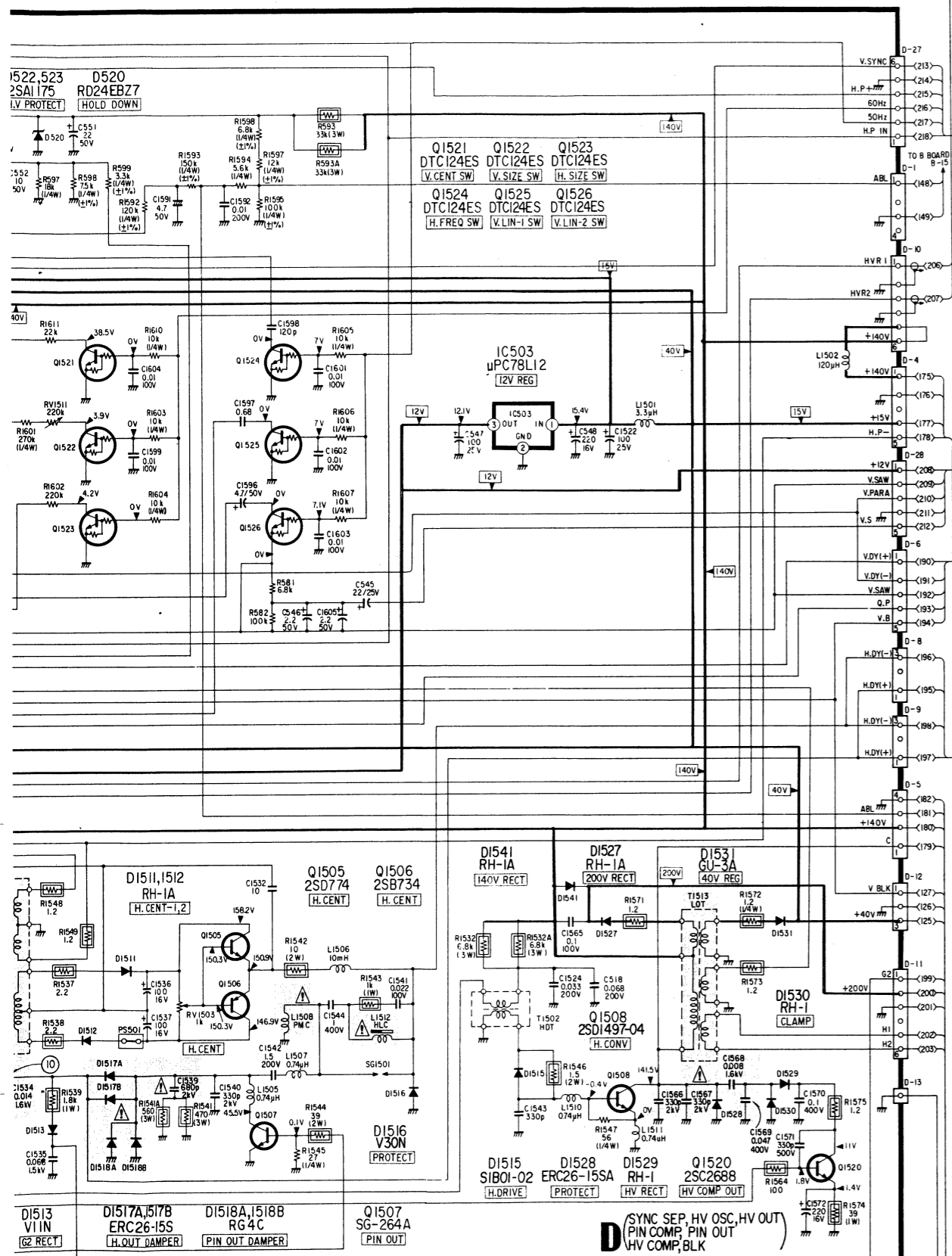
—HD Board—




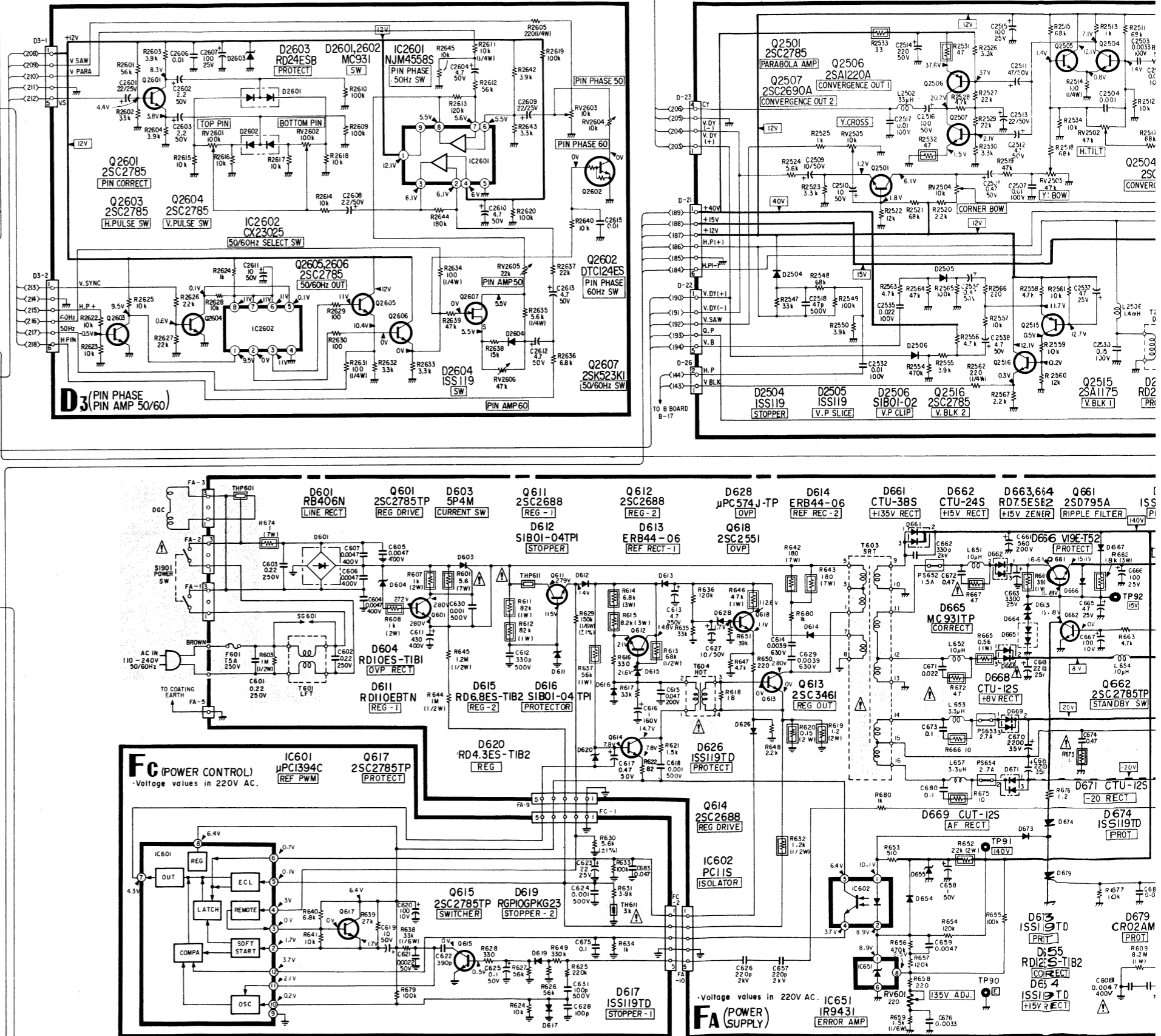
—N Board—

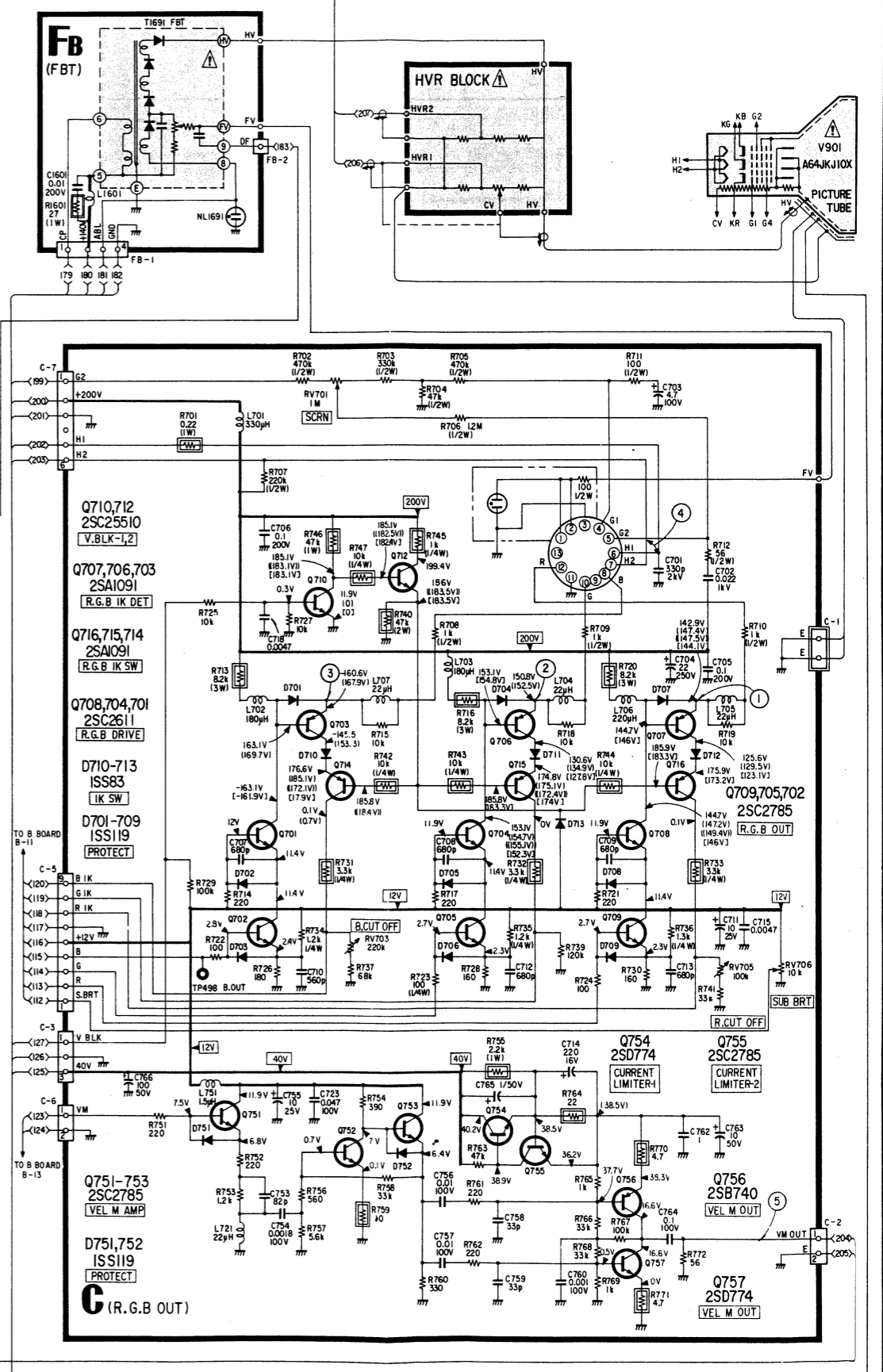






Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.





(SYNC SEP, H. VOSC, H.V. OUT,
PIN COMP, PIN OUT, H.V. COMP,
BLK

D

D

C

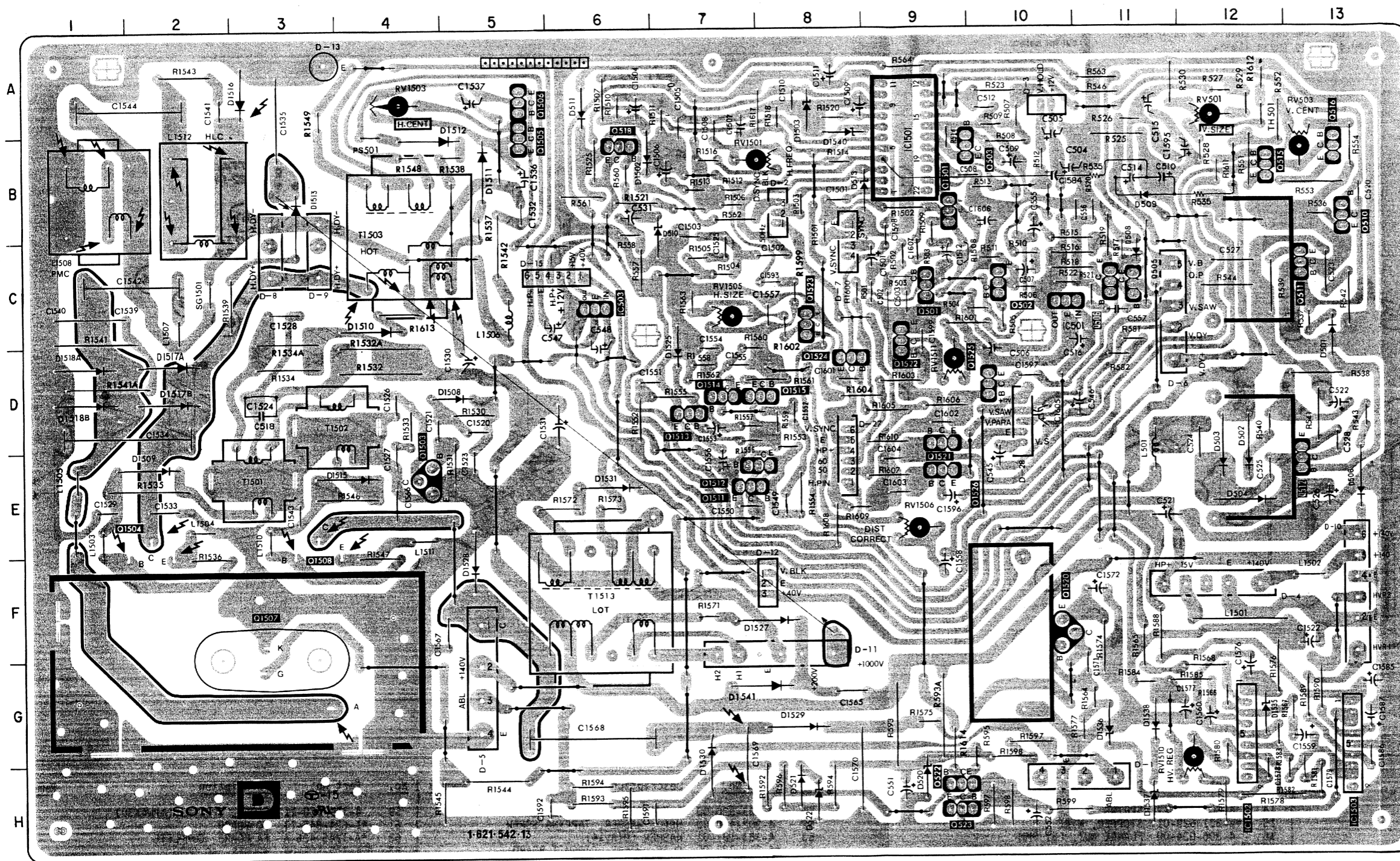
(RGB OUT)

FB

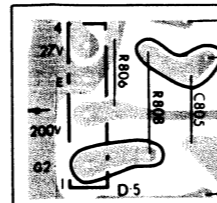
(FBT)

— Conductor Side —

— D Board —



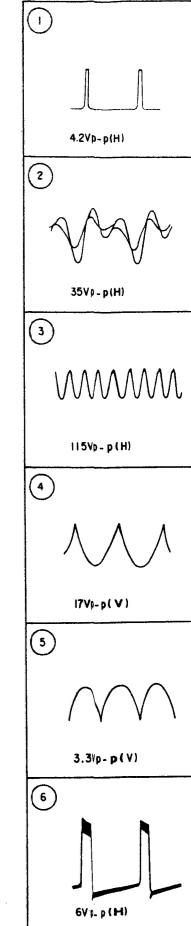
1-821-542-13

**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D Board

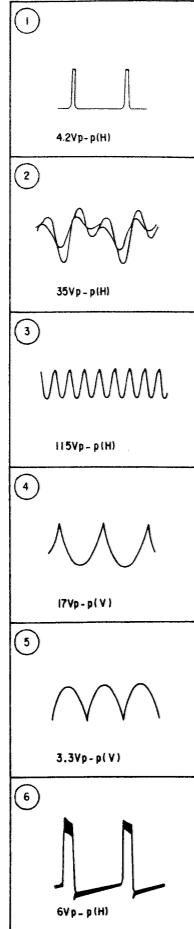
IC		D1537	H11
IC501		D1538	G11
IC503		D1540	B8
IC1501		D1541	G8
IC1502		D1517A	D2
IC1503		D1517B	D2
		D1518A	D1
		D1518B	D1
TRANSISTOR		RESISTOR	
Q501	C9	RV501	A12
Q502	C10	RV503	B13
Q503	B9	RV1501	B7
Q505	C11	RV1503	A4
Q506	C11	RV1505	C7
Q510	B13	RV1506	E9
Q511	C13	RV1510	G12
Q512	E13	RV1511	D9
Q515	B12		
Q516	B13		
Q518	B6		
Q522	H9		
Q523	H9		
Q1501	B9		
Q1503	E4		
Q1504	E2		
Q1505	B5		
Q1506	A5		
Q1507	F3		
Q1508	E3		
Q1511	E7		
Q1512	E7		
Q1513	D7		
Q1514	D7		
Q1515	D8		
Q1520	F10		
Q1521	D9		
Q1522	D9		
Q1523	C8		
Q1524	D8		
Q1525	D10		
Q1526	E9		
DIODE			
D501	C13		
D502	E12		
D503	E12		
D504	E12		
D506	E13		
D508	C11		
D509	B11		
D510	B7		
D511	A6		
D513	B8		
D520	H9		
D521	H8		
D522	H8		
D1502	B6		
D1503	A8		
D1508	D5		
D1509	E2		
D1510	C4		
D1511	B5		
D1512	A5		
D1513	B3		
D1515	E4		
D1516	A3		
D1525	D7		
D1527	F8		
D1528	F5		
D1529	G8		
D1530	G7		
D1531	E6		
D1535	G12		
D1536	G11		

[D2 BOARD]

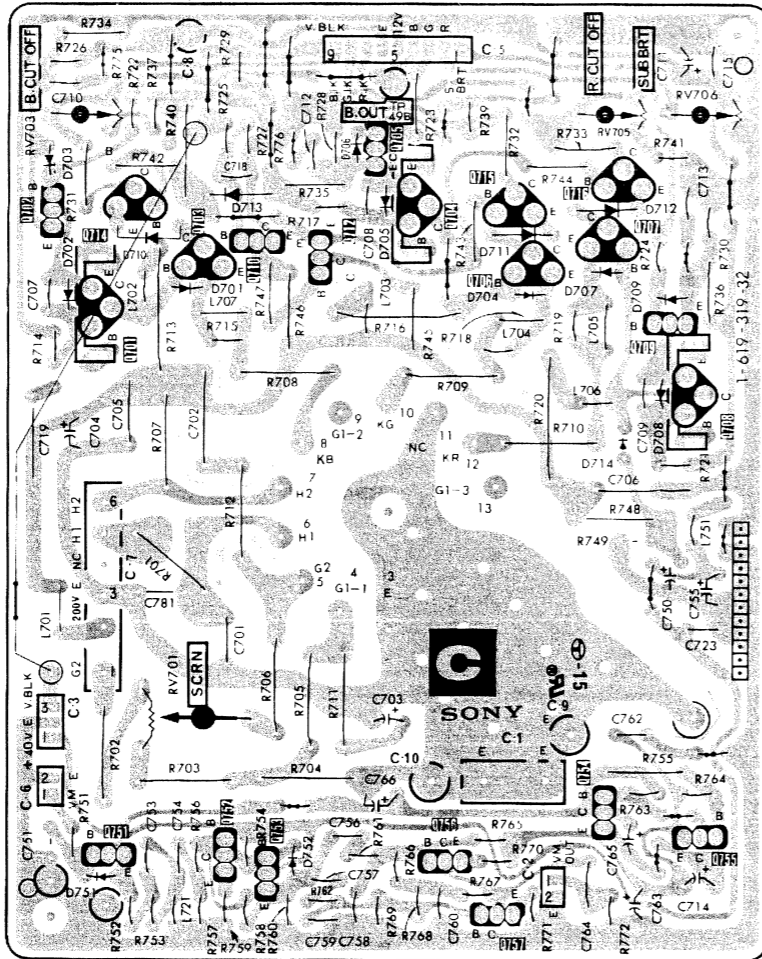
Board

IC	D1537 H11	D1538 G11	D1540 B8	D1541 G8	D1517A D2	D1517B D2	D1518A D1	D1518B D1
TRANSISTOR	RESISTOR							
01 C10	RV501 A12							
03 C6	RV503 B13							
501 B9	RV1501 B7							
502 G12	RV1503 A4							
503 G13	RV1505 C7							
	RV1506 E9							
	RV1510 G12							
	RV1511 D9							
18 B6								
22 H9								
23 H9								
301 B9								
303 E4								
304 E2								
305 B5								
306 A5								
307 F3								
308 E3								
111 E7								
112 E7								
113 D7								
114 D7								
115 D8								
120 F10								
121 D9								
122 D9								
123 C8								
124 D8								
25 D10								
26 E9								
DIODE								
1 C13								
2 E12								
3 E12								
4 E12								
6 E13								
8 C11								
9 B11								
0 B7								
1 A6								
3 B8								
0 H9								
1 H8								
2 H8								
02 B6								
03 A8								
08 D5								
09 E2								
10 C4								
11 B5								
12 A5								
13 B3								
15 E4								
16 A3								
25 D7								
27 F8								
28 F5								
29 G8								
30 G7								
31 E6								
35 G12								
36 G11								

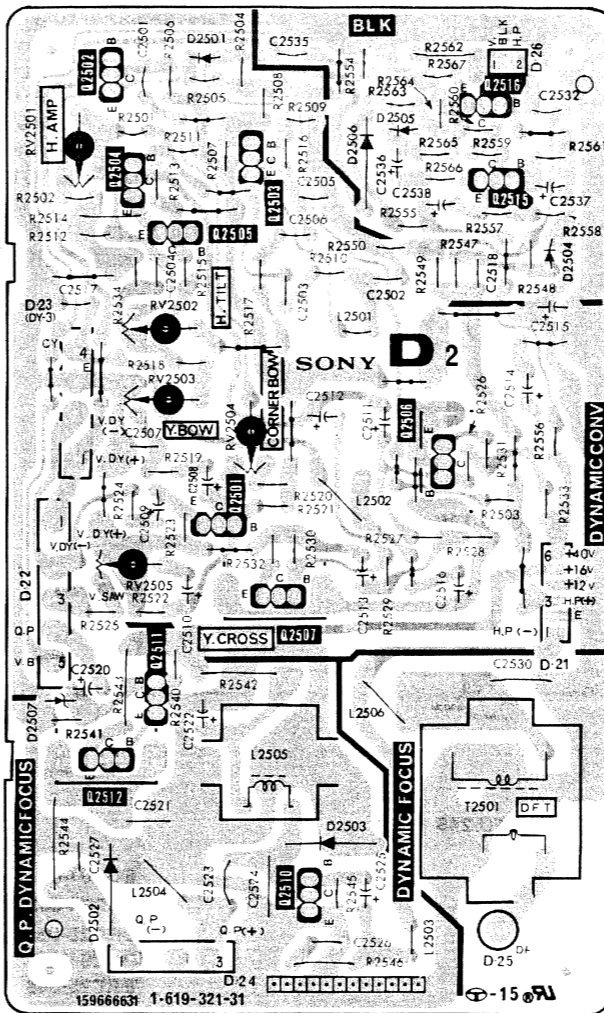
[D2 BOARD]



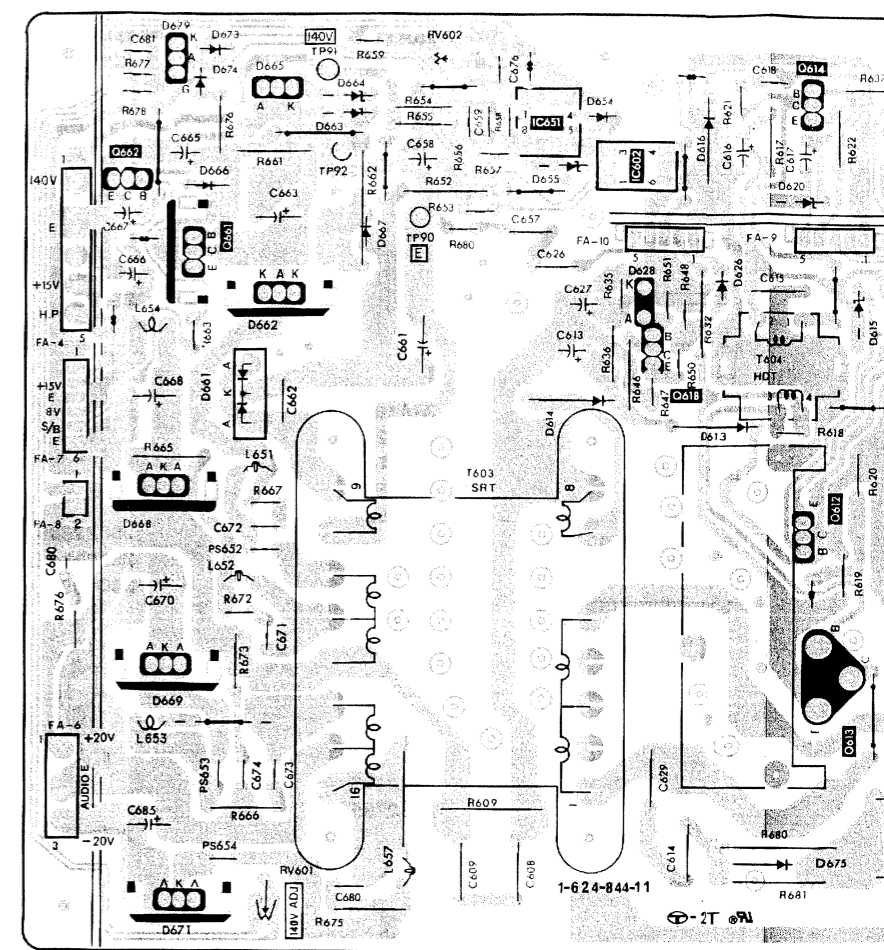
- C Board -



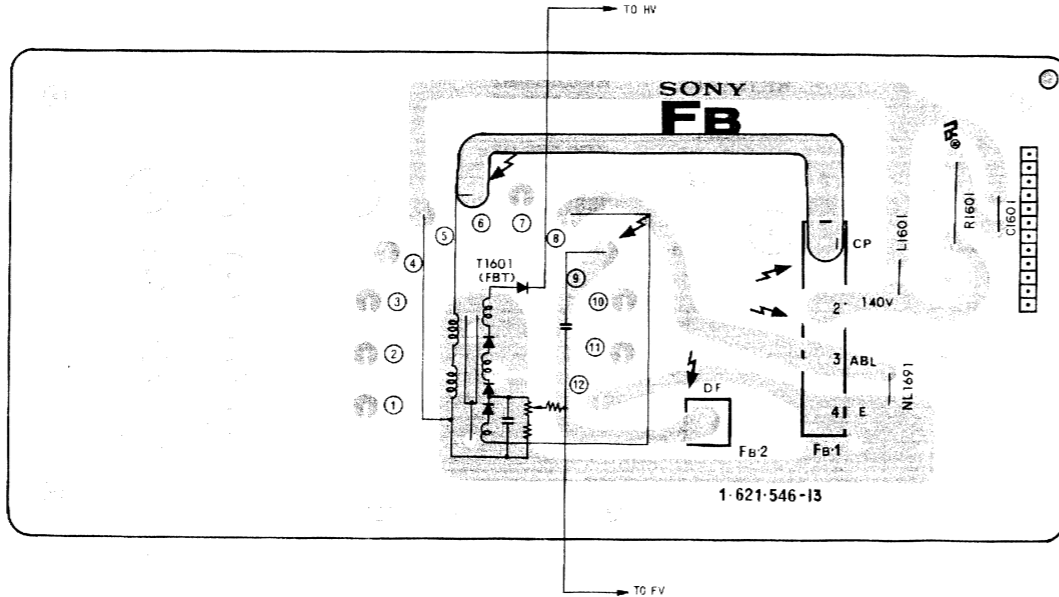
- D2 Board -



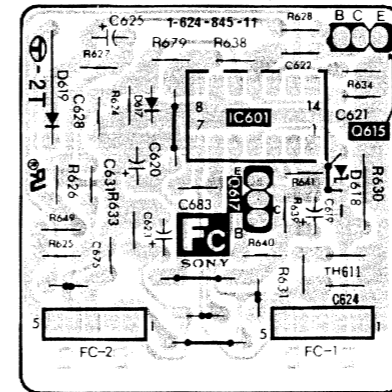
- FA Board -



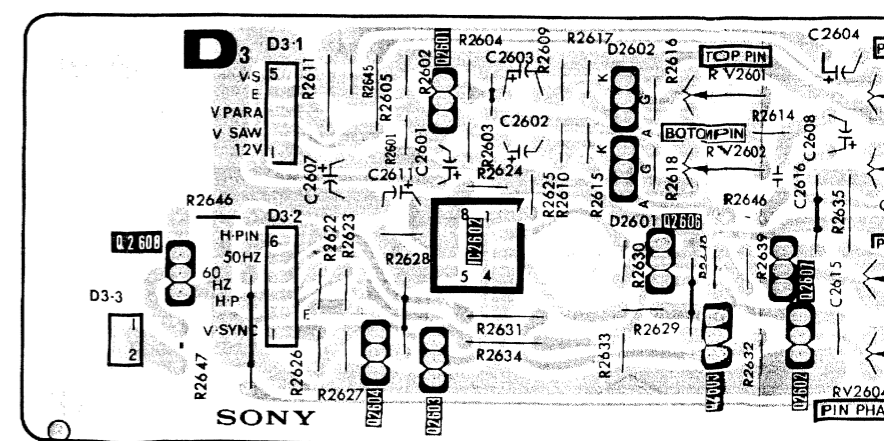
- FB Board -



- FC Board -



- D3 Board -



P, MODULATION)

D2

(POWER CONTROL)

FC

(POWER SUPPLY)

FA

(FBT PIN PHASE PIN AMP 50/60)

D3

FA

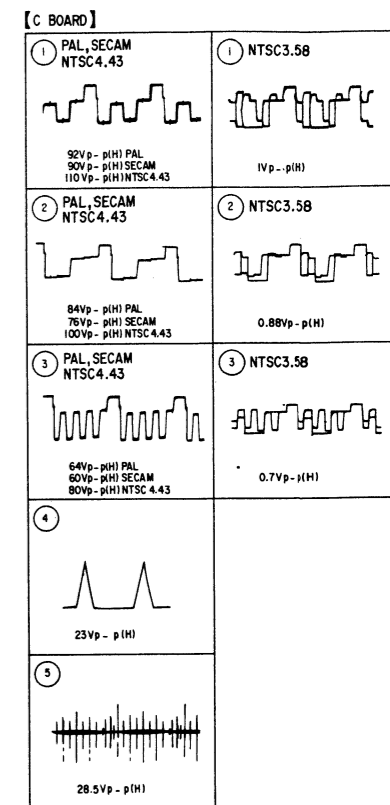
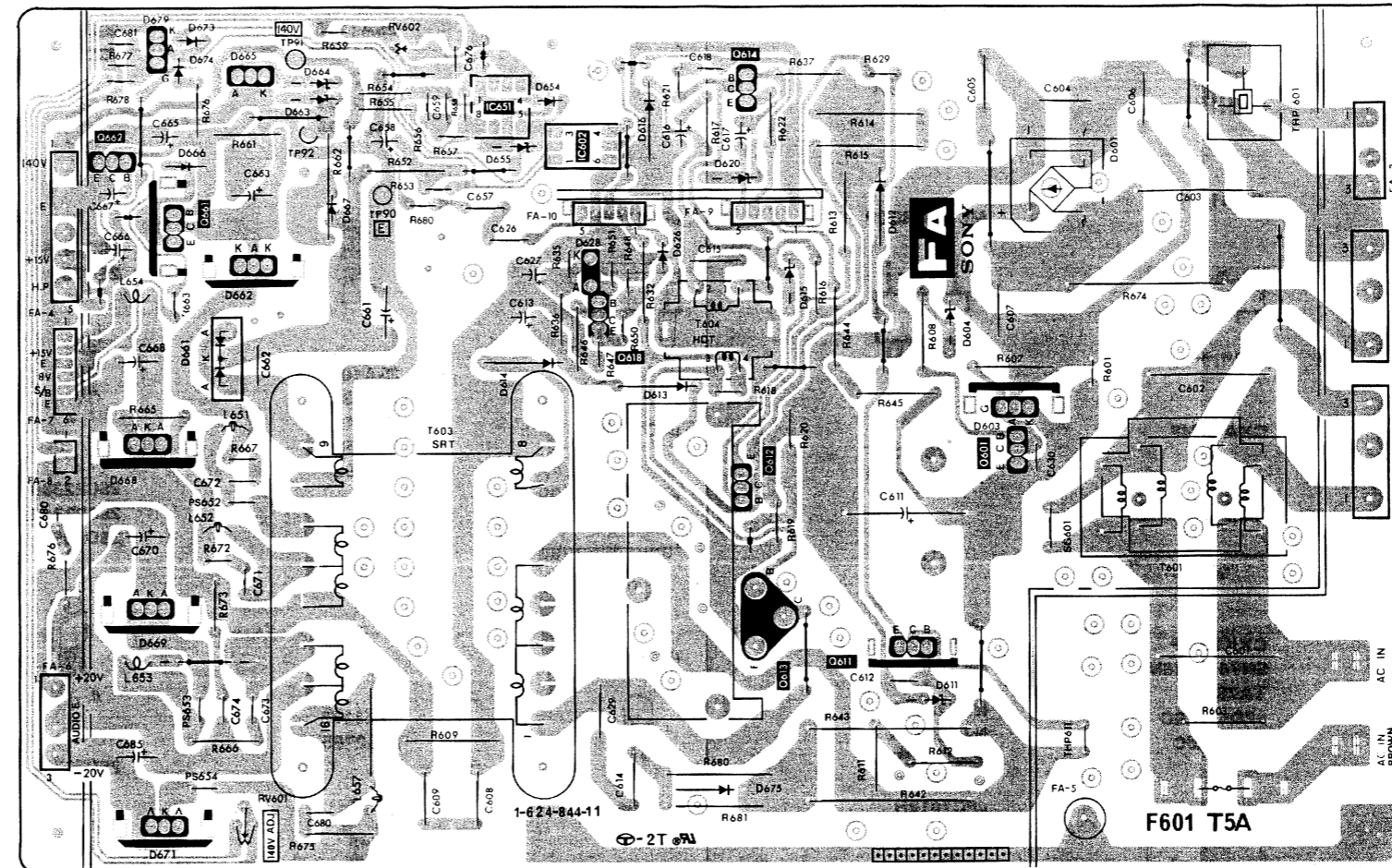
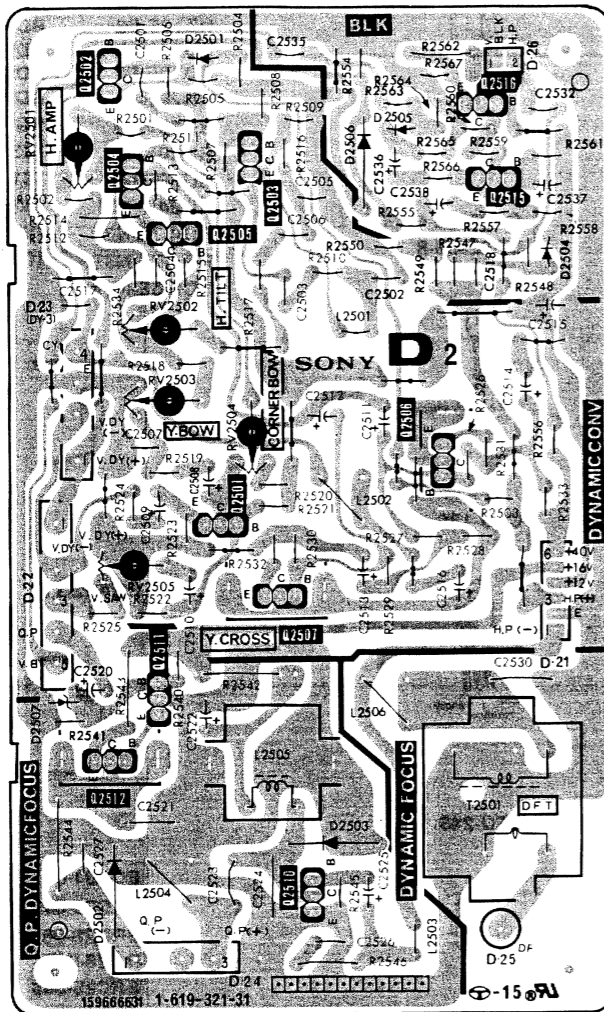
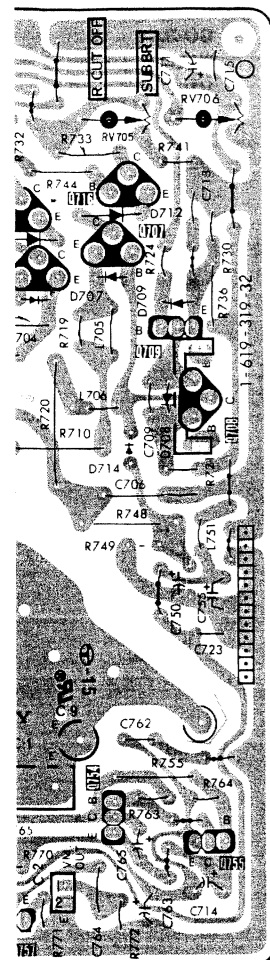
D3

FA

D3

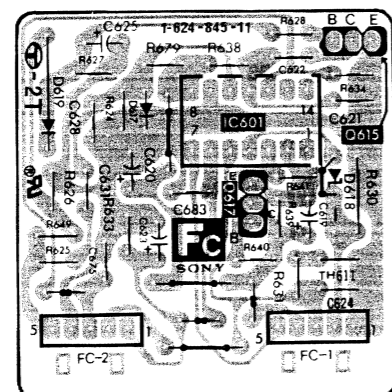
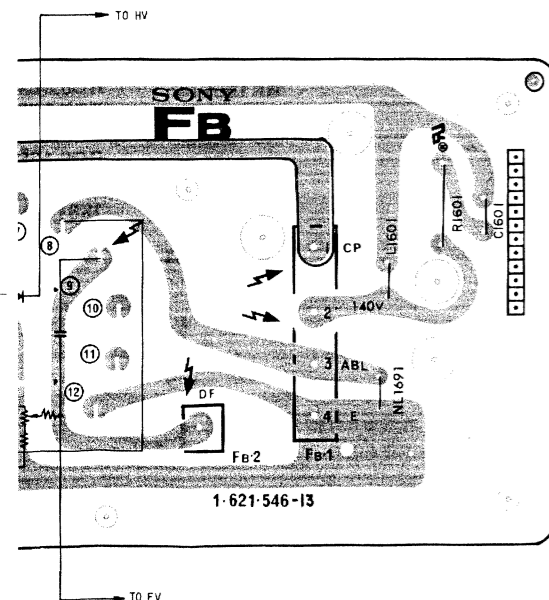
— D2 Board —

— FA Board —



— FC Board —

— D3 Board —



—63—

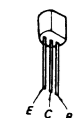
SECTION 6 EXPLODED VIEWS

The compon
shading and
cal for safet
Replace only
specified.

2SB734
2SC2958
2SC2959
2SD773
2SD774



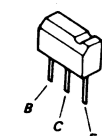
2SC1475
2SD788



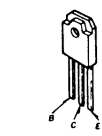
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2SC2334-L
2SD795A



2SC2673



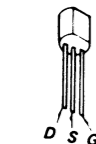
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2SD1497-04



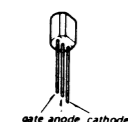
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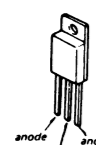
2SK523-L1



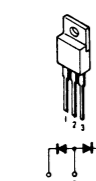
CR02AM-4
CR02AM-8



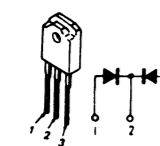
CTU-12S



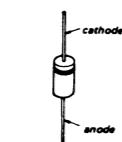
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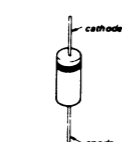
CTU-38S



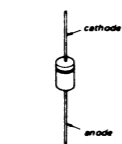
EQA01-06T
ERB12-02
ERB44-06
HZ12E-B2
RD110E-B
RD12E-B2
RD20E-B
RD20E-N1
RD20E-N2
RD20E-N3
RD24E-BZ7
RD4.7E-N2
RD4.7E-N3TN
RD5.6E-N1TN



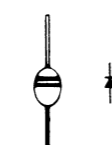
EQA02-11C



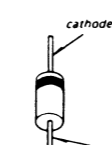
EQB01-06
ERC24-06S
ERD28-08S
RD28-08S
ERC25-06S
RG4C
RH-1
RH-1A
RH-1Z
SIB01-02
SIB01-04



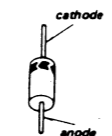
ERC26-15S
ERC26-15SA
GH3F
GU-3A
V11N
V19E
V19G
V30N
U05G



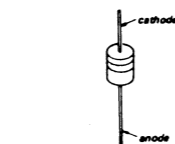
ERC35-02
ERD29-08J



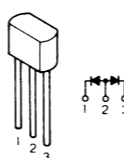
GP08D



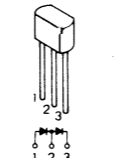
HZS12NB2
HZS13N
HZS15N
HZS20N
HZS24N
HZS5.6NB1
HZS6.8NB2
RK10ES-B2
RD12ES-B2
RD13ES-B
RD13ES-B2
RD15ES-B
RD20ES-B
RD24ES-B
RD3.6ES-B1



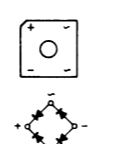
MC911



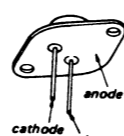
MC931



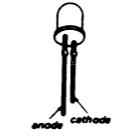
RB406NH



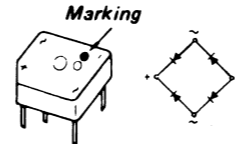
SG264A



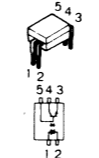
SLR-932A



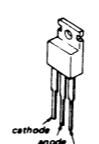
S3WB60Z
S3WB60ZS



TLP581

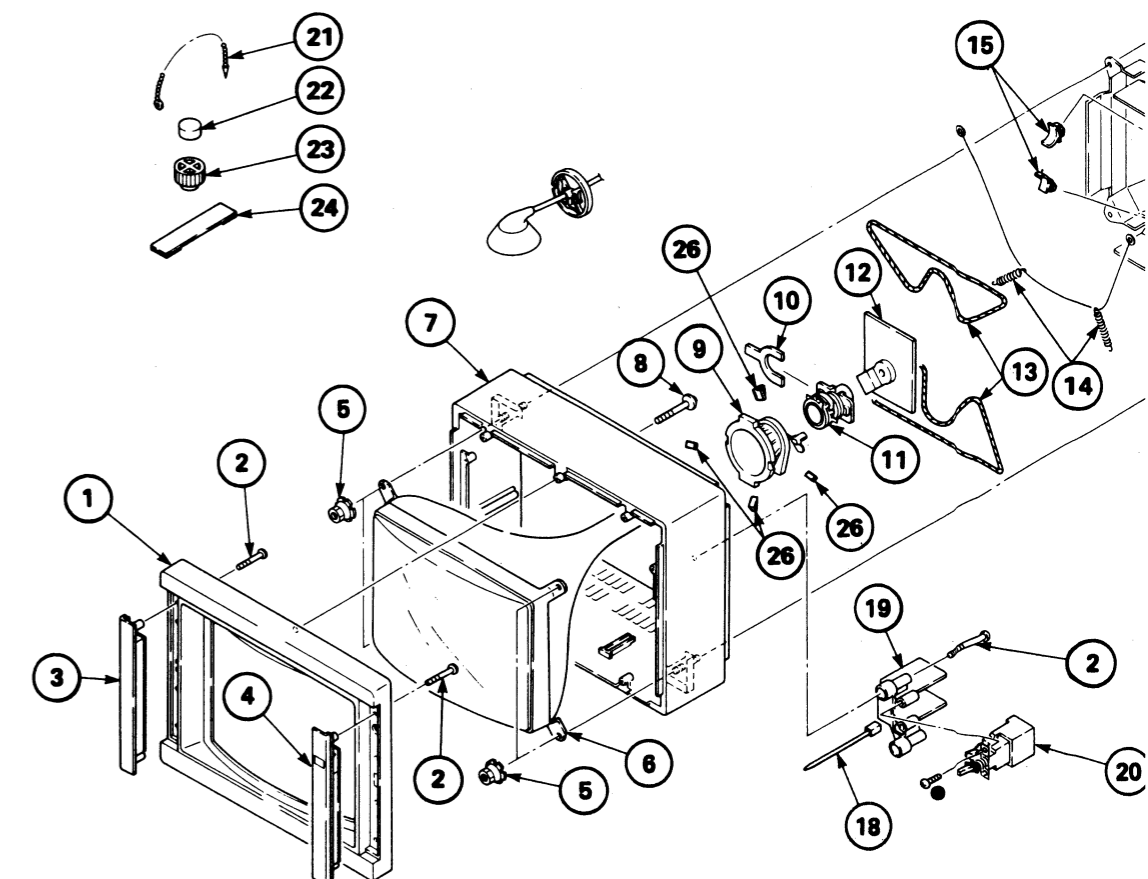


5P4M
5P6M



6-1. PICTURE TUBE

• BVTP3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description
1	X-4374-191-1	BEZEL ASSY		14	4-303-774-XX	SPRING
2	3-703-083-00	+ BV 3X25	2	15	*4-371-629-01	STOPPER, WIRE
3	1-464-792-11	KEY BOARD UNIT (A)		16	4-306-034-00	FLANGE NUT, (B) 5MM
4	1-464-793-11	KEY BOARD UNIT (B)		17	Δ1-230-712-22	RESISTOR ASSY, HIGH
5	4-376-980-01	NUT, SPECIAL, CRT		18	*4-371-182-01	SHAFT
6	Δ8-736-652-05	PICTURE TUBE (A64JKJ10X)		19	*4-371-183-01	COVER, MAIN SWITCH
7	X-4374-192-1	CABINET ASSY		20	Δ1-554-966-12	SWITCH, PUSH (AC PO
8	4-319-520-11	SCREW, SPECIAL (+PW4X30)	8	21	4-308-870-00	CLIP, LEAD WIRE
9	Δ1-451-255-22	DEFLECTION YOKE (SY-164)		22	1-452-032-00	MAGNET, DISK; 10MM
10	1-452-146-21	MAGNET, BMC		23	1-452-094-00	MAGNET, ROTATABLE D
11	Δ1-452-351-22	NECK ASSY, CRT (NA302)		24	X-4308-815-0	PERMALLOY ASSY, CON
12	*A-1330-789-A	C BOARD, COMPLETE		26	3-703-003-00	SOLDER, DY
13	Δ1-426-289-11	COIL, DEMAGNETIZATION				

SECTION 6
EXPLODED VIEWS

NOTE:

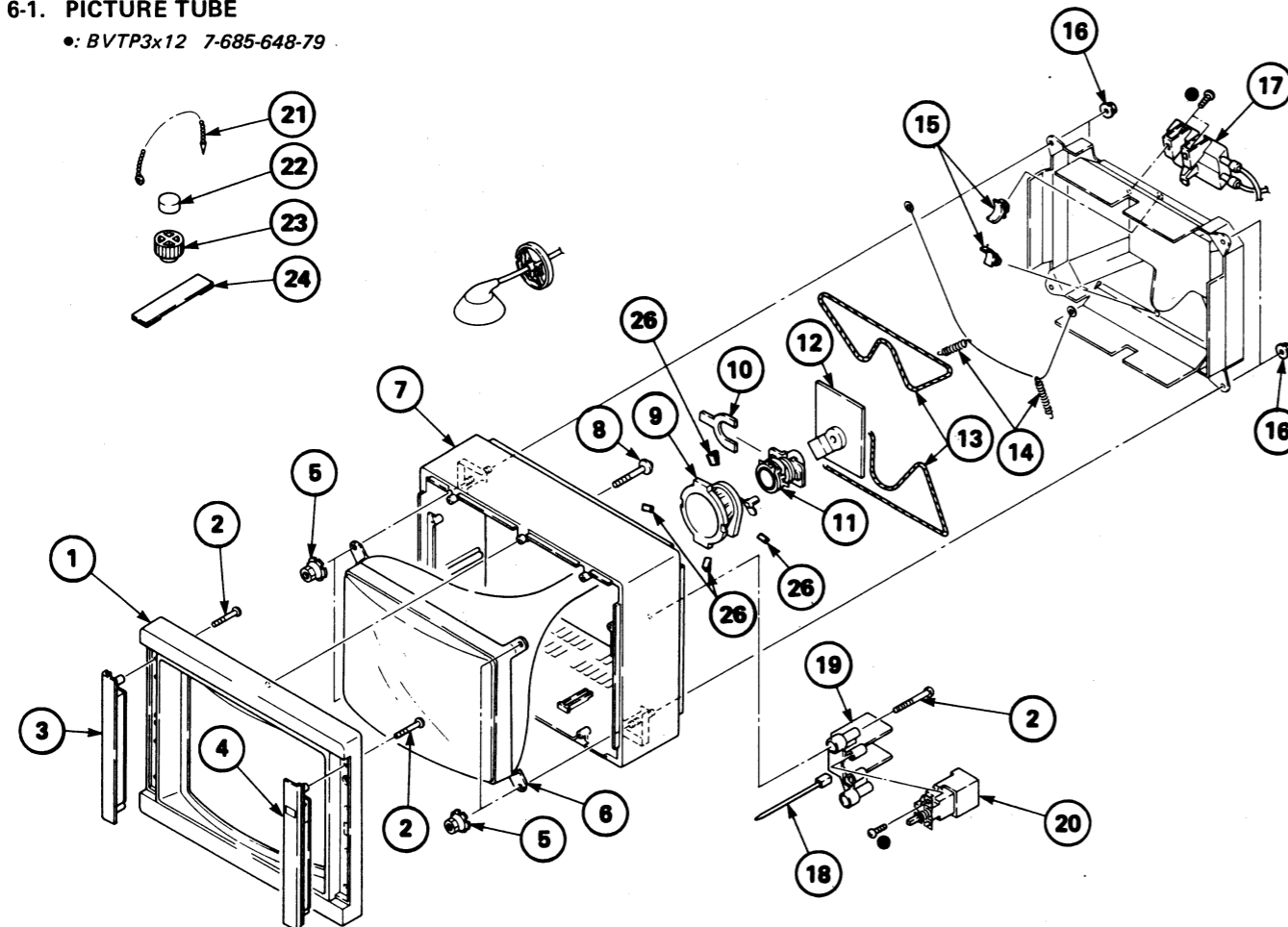
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

6-1. PICTURE TUBE

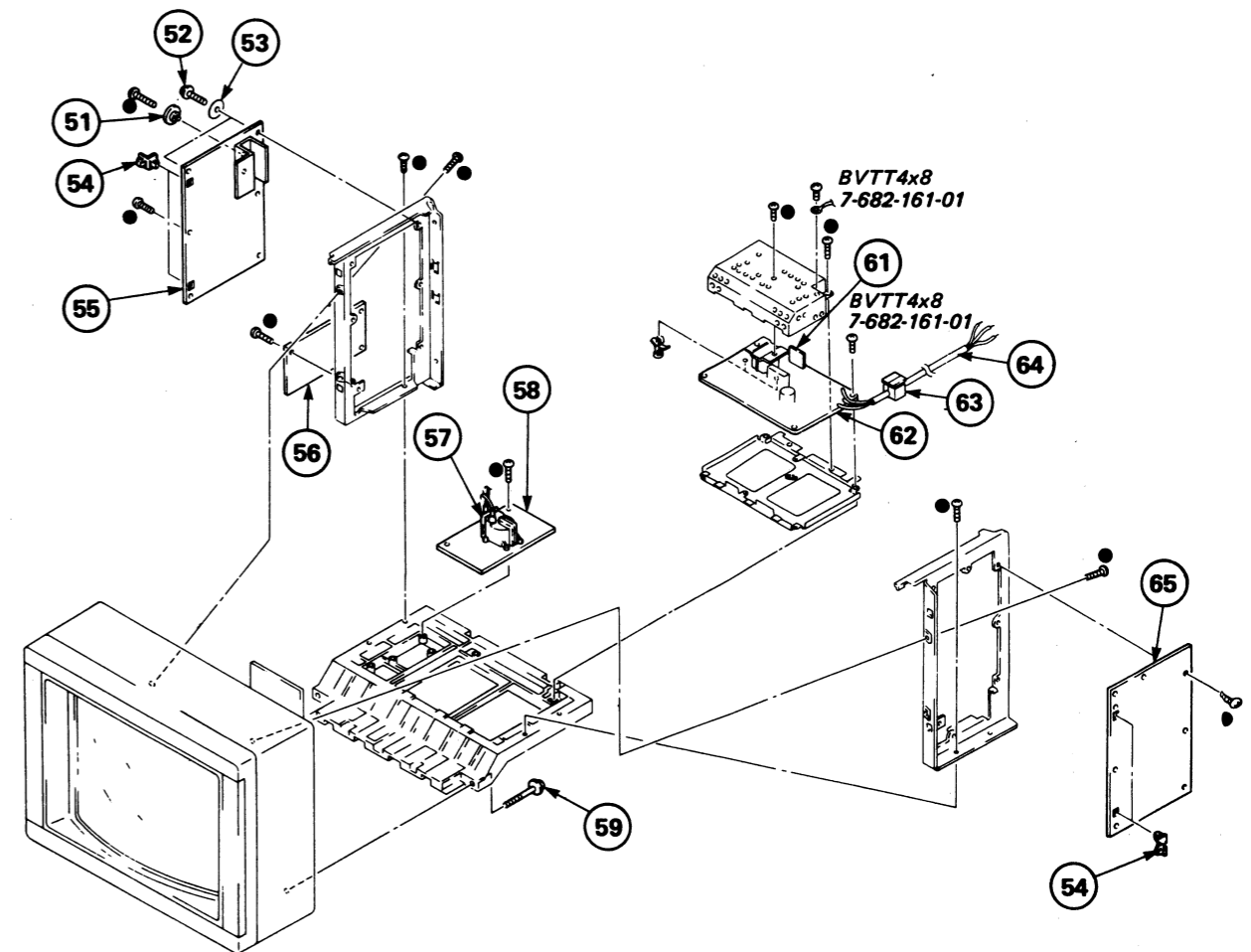
• BVTP3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4374-191-1	BEZEL ASSY		14	4-303-774-XX	SPRING	
2	3-703-083-00	+ BV 3X25	2	15	*4-371-629-01	STOPPER, WIRE	
3	1-464-792-11	KEY BOARD UNIT (A)		16	4-306-034-00	FLANGE NUT, (B) 5MM	
4	1-464-793-11	KEY BOARD UNIT (B)		17	Δ 1-230-712-22	RESISTOR ASSY, HIGH-VOLTAGE	
5	4-376-980-01	NUT, SPECIAL, CRT		18	*4-371-182-01	SHAFT	
6	Δ 8-736-652-05	PICTURE TUBE (A64JKJ10X)		19	*4-371-183-01	COVER, MAIN SWITCH	
7	X-4374-192-1	CABINET ASSY	8	20	Δ 1-554-966-12	SWITCH, PUSH (AC POWER)(1 KEY)	
8	4-319-520-11	SCREW, SPECIAL (+PW4X30)		21	4-308-870-00	CLIP, LEAD WIRE	
9	Δ 1-451-255-22	DEFLECTION YOKE (SY-164)		22	1-452-032-00	MAGNET, DISK; 10MM ϕ	
10	1-452-146-21	MAGNET, BMC		23	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
11	Δ 1-452-351-22	NECK ASSY, CRT (NA302)		24	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
12	*A-1330-789-A	C BOARD, COMPLETE		26	3-703-003-00	SPACER, DY	
13	Δ 1-426-289-11	COIL, DEMAGNETIZATION					

6-2. CHASSIS

• BVTP3x12 7-685-648-79

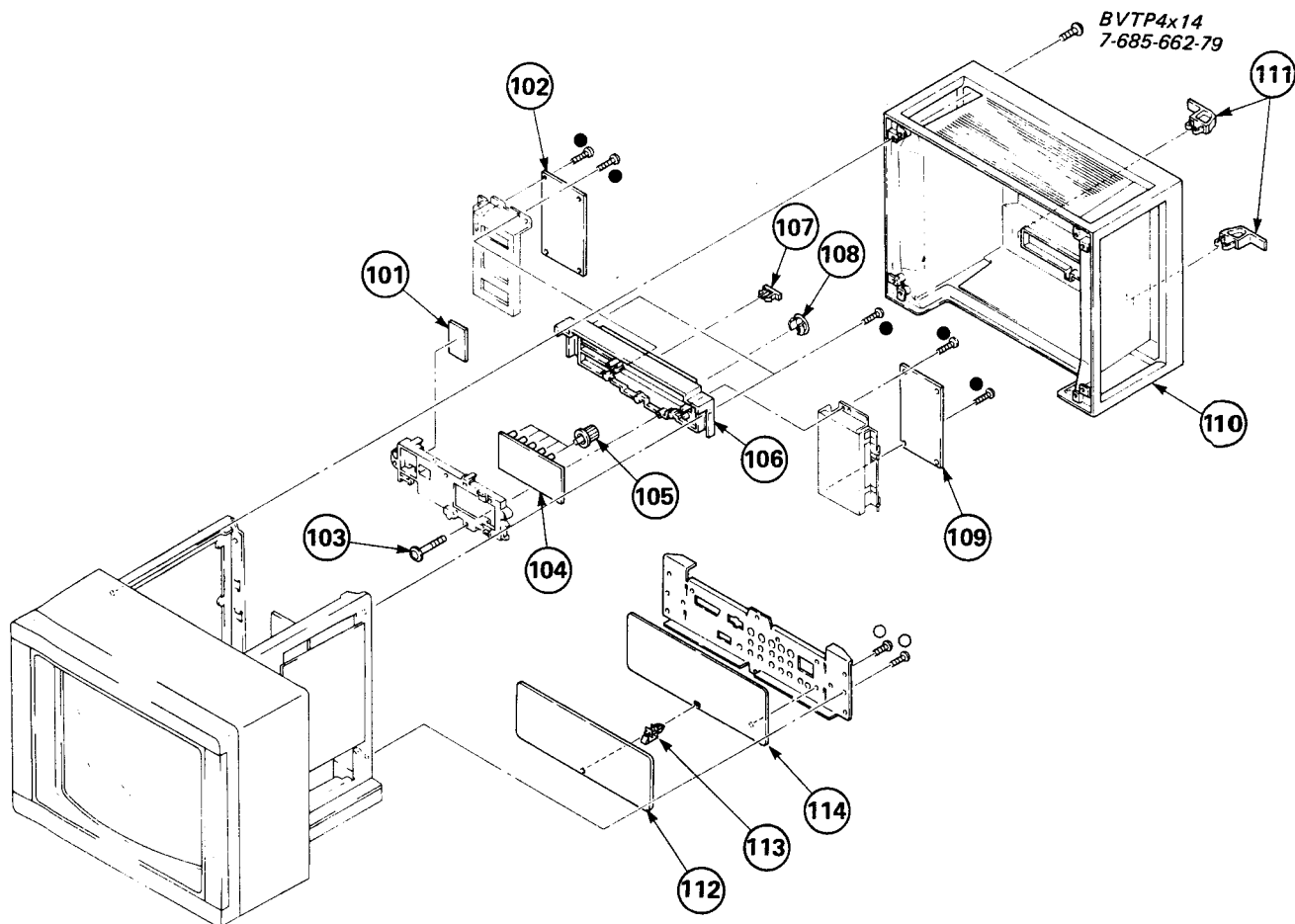


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	3-703-320-00	BUSHING (A), TRANSISTOR		59	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
52	4-302-428-00	HEAD, WASHER, TAPPING SCREW		61	*1-624-845-11	FC BOARD	
53	4-383-101-01	WASHER (DIA.14)		62	*A-T245-426-A	FA BOARD, COMPLETE	
54	*4-313-732-00	CLIP, HINGE, CIRCUIT BOARD		63	Δ 4-316-102-04	HOLDER, AC CORD	
55	*A-1345-756-A	D BOARD, COMPLETE		64	Δ 1-559-436-11	CORD, POWER	
56	*A-1340-941-A	D3 BOARD, COMPLETE		65	*A-1135-442-A	B BOARD, COMPLETE	
57	Δ 1-439-339-14	TRANSFORMER ASSY, FLYBACK					
58	*1-621-546-11	FB BOARD					

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

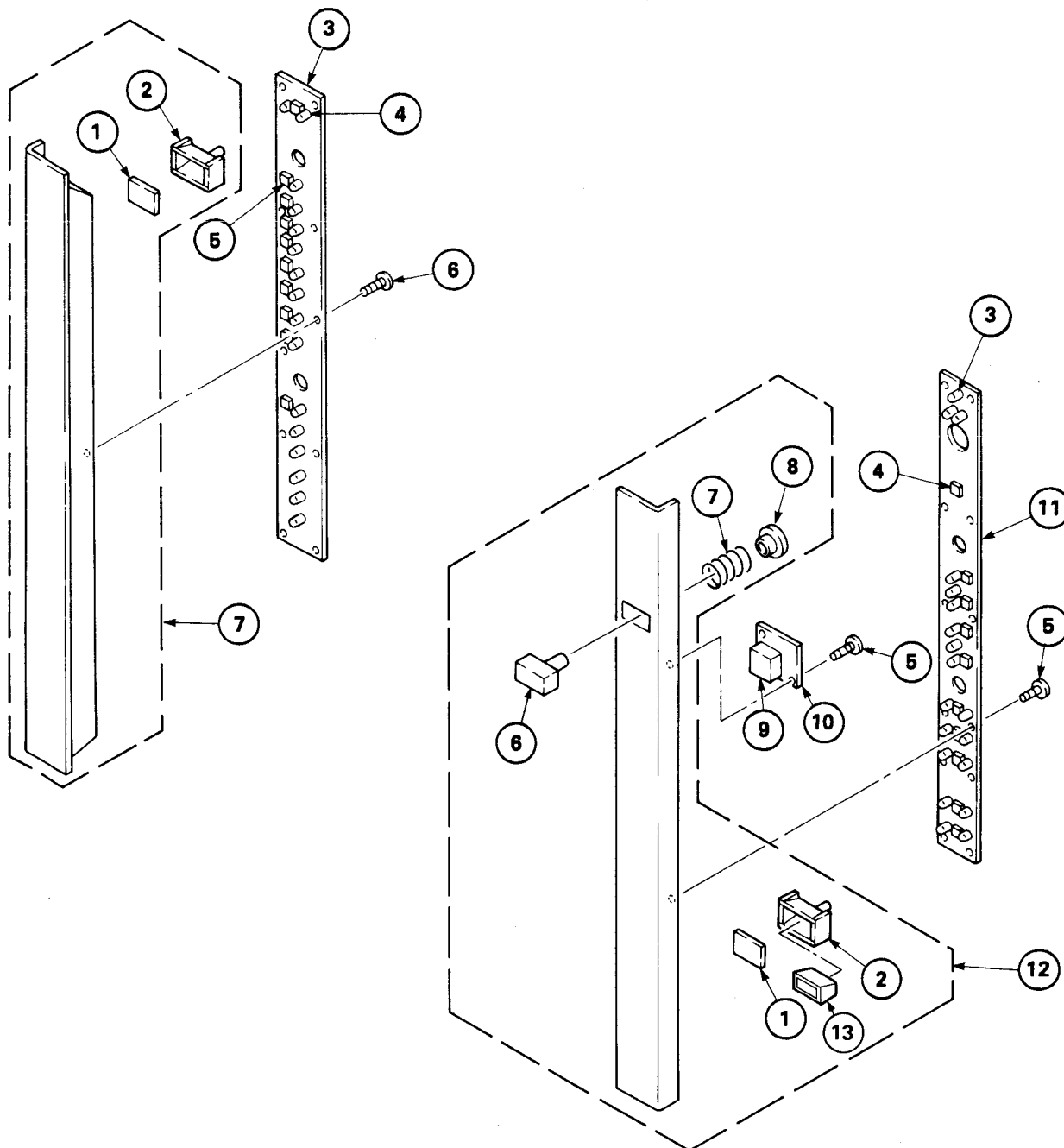
6-3. BACK COVER

- : BVTP 3x12 7-685-648-79
- : BVTP 3x10 7-685-647-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101	*1-624-847-11	HD BOARD		108	4-371-181-01	CAP	
102	*A-1340-940-A	D2 BOARD, COMPLETE		109	*A-1380-192-A	K BOARD, COMPLETE	
103	4-319-520-11	SCREW, SPECIAL (+PW4X30)		110	X-4374-162-3	COVER ASSY, REAR	111
104	*A-1375-070-A	HC BOARD, COMPLETE		111	4-316-003-00	HOLDER, CORD	
105	4-381-166-01	KNOB (A), CONTROL		112	*A-1270-213-A	QB BOARD, COMPLETE	
106	4-382-005-31	PANEL, CONTROL		113	*3-703-141-00	HOLDER, PCB	
107	4-371-176-01	CAP, SQUARE		114	*A-1270-212-A	QA BOARD, COMPLETE	

6-4. KEY BOARD UNIT



No.	Part No.	Description
1	9-990-892-01	BOARD, DISPENSION A
2	9-990-891-01	BOARD, REFLECTION A
3	*9-992-247-01	HA BOARD
4	9-992-528-01	SPACER
5	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
6	9-990-894-01	SCREW, M2X6
7	9-992-249-01	FRAME ASSY

Remark	No.	Part No.	Description	Remark
	1	9-990-892-01	BOARD, DISPENSION A	
	2	9-990-891-01	BOARD, REFLECTION A	
	3	9-990-895-01	SPACER	
	4	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
	5	9-990-894-01	SCREW, M2X6	
1,2	6	9-990-899-01	KEY TOP	
	7	9-990-902-01	SPRING	
	8	9-990-900-01	STOPPER	
	9	8-741-138-70	DETECTOR (BX1387)	
	10	*9-990-898-01	N BOARD	
	11	*9-992-243-01	HB BOARD	
	12	9-992-244-01	FRAME ASSY	1,2,6,7,8,13
	13	9-992-529-01	SHAFT	

SECTION 7 ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

• All resistors are in ohms
• F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
	*A-1135-442-A	B BOARD, COMPLETE *****		C139	1-123-356-00	ELECT 10MF 20% 16V	
		<u>CONNECTOR</u>		C140	1-123-356-00	ELECT 10MF 20% 16V	
B1	*1-566-054-11	PIN, CONNECTOR 2P		C141	1-123-330-00	ELECT 22MF 20% 16V	
B2	*1-566-057-11	PIN, CONNECTOR 5P		C150	1-123-379-00	ELECT 0.47MF 20% 50V	
B4	*1-566-055-11	PIN, CONNECTOR 3P		C161	1-123-333-00	ELECT 100MF 20% 25V	
B5	*1-566-059-11	PIN, CONNECTOR 7P					
B6	*1-566-056-11	PIN, CONNECTOR 4P		C162	1-123-321-00	ELECT 220MF 20% 16V	
				C167	1-101-004-00	CERAMIC 0.01MF 50V	
B7	*1-566-058-11	PIN, CONNECTOR 6P		C168	1-123-356-00	ELECT 10MF 20% 16V	
B8	*1-566-059-11	PIN, CONNECTOR 7P		C169	1-123-356-00	ELECT 10MF 20% 25V	
B9	*1-566-061-11	PIN, CONNECTOR 9P		C170	1-101-004-00	CERAMIC 0.01MF 50V	
B10	*1-566-065-11	PIN, CONNECTOR 13P					
B11	*1-566-061-11	PIN, CONNECTOR 9P		C171	1-123-356-00	ELECT 10MF 20% 16V	
				C173	1-101-004-00	CERAMIC 0.01MF 50V	
B13	*1-566-054-11	PIN, CONNECTOR 2P		C174	1-101-004-00	CERAMIC 0.01MF 50V	
B14	*1-566-057-11	PIN, CONNECTOR 5P		C175	1-101-006-00	CERAMIC 0.047MF 50V	
B15	*1-508-766-00	4P PLUG (M)		C177	1-119-354-00	ELECT 330MF 10V	
B16	*1-566-056-11	PIN, CONNECTOR 4P					
B17	*1-566-054-11	PIN, CONNECTOR 2P		C178	1-101-004-00	CERAMIC 0.01MF 50V	
				C179	1-101-006-00	CERAMIC 0.047MF 50V	
B18	*1-566-055-11	PIN, CONNECTOR 3P		C180	1-126-101-11	ELECT 100MF 20% 10V	
B19	*1-566-057-11	PIN, CONNECTOR 5P		C181	1-123-332-00	ELECT 47MF 20% 16V	
B20	*1-566-058-11	PIN, CONNECTOR 6P		C182	1-101-006-00	CERAMIC 0.047MF 50V	
B21	*1-566-054-11	PIN, CONNECTOR 2P					
		<u>CAPACITOR</u>		C183	1-119-352-00	ELECT 100MF 10V	
C101	1-123-356-00	ELECT 10MF 20% 16V		C185	1-126-101-11	ELECT 100MF 20% 10V	
C103	1-102-973-00	CERAMIC 100PF 5% 50V		C186	1-123-356-00	ELECT 10MF 20% 16V	
C104	1-123-306-00	ELECT 47MF 20% 10V		C187	1-123-330-00	ELECT 22MF 20% 16V	
C105	1-136-161-00	FILM 0.047MF 5% 50V		C301	1-123-333-00	ELECT 100MF 20% 16V	
C106	1-102-963-00	CERAMIC 33PF 5% 50V					
C107	1-102-963-00	CERAMIC 33PF 5% 50V		C302	1-101-888-00	CERAMIC 68PF 5% 50V	
C108	1-102-978-00	CERAMIC 220PF 5% 50V		C303	1-123-369-00	ELECT 4.7MF 20% 25V	
C110	1-123-333-00	ELECT 100MF 20% 25V		C304	1-102-356-00	ELECT 10MF 20% 16V	
C112	1-123-335-00	ELECT 330MF 20% 25V		C305	1-130-477-00	MYLAR 0.0033MF 5% 50V	
C113	1-123-318-00	ELECT 33MF 20% 16V		C306	1-101-006-00	CERAMIC 0.047MF 50V	
C114	1-123-333-00	ELECT 100MF 20% 25V					
C115	1-123-333-00	ELECT 100MF 20% 16V		C307	1-101-006-00	CERAMIC 0.047MF 50V	
C116	1-101-006-00	CERAMIC 0.047MF 50V		C308	1-123-381-00	ELECT 2.2MF 50V	
C118	1-101-004-00	CERAMIC 0.01MF 50V		C309	1-102-946-00	CERAMIC 9PF 0.5PF 50V	
C119	1-123-330-00	ELECT 22MF 20% 16V		C310	1-123-356-00	ELECT 10MF 20% 16V	
C120	1-123-330-00	ELECT 22MF 20% 25V		C311	1-136-157-00	FILM 0.022MF 5% 50V	
C123	1-101-006-00	CERAMIC 0.047MF 50V					
C125	1-123-380-00	ELECT 1MF 20% 50V		C312	1-136-157-00	FILM 0.022MF 5% 50V	
C126	1-123-380-00	ELECT 1MF 20% 50V		C313	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C127	1-123-380-00	ELECT 1MF 20% 50V		C314	1-101-006-00	CERAMIC 0.047MF 50V	
C128	1-123-380-00	ELECT 1MF 20% 50V		C315	1-101-006-00	CERAMIC 0.047MF 50V	
C131	1-130-475-00	MYLAR 0.0022MF 5% 50V		C316	1-136-169-00	FILM 0.22MF 5% 50V	
C133	1-123-380-00	ELECT 1MF 20% 50V					
C134	1-123-380-00	ELECT 1MF 20% 50V		C317	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C135	1-123-381-00	ELECT 2.2MF 20% 50V		C322	1-101-006-00	CERAMIC 0.047MF 50V	
C136	1-101-006-00	CERAMIC 0.047MF 50V		C323	1-124-464-11	ELECT 0.22MF 20% 50V	
C137	1-126-101-11	ELECT 100MF 20% 10V		C324	1-124-464-11	ELECT 0.22MF 20% 50V	
C138	1-126-101-11	ELECT 100MF 20% 10V		C325	1-123-333-00	ELECT 100MF 20% 16V	
				C326	1-124-464-11	ELECT 0.22MF 20% 50V	
				C327	1-102-111-00	CERAMIC 270PF 10% 50V	
				C330	1-101-006-00	CERAMIC 0.047MF 50V	
				C331	1-123-380-00	ELECT 1MF 20% 50V	
				C332	1-136-161-00	FILM 0.047MF 5% 50V	
				C333	1-102-959-00	CERAMIC 22PF 5% 50V	
				C334	1-123-380-00	ELECT 1MF 20% 50V	
				C335	1-126-101-11	ELECT 100MF 20% 10V	

B

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark				
C336	1-123-318-00	ELECT	33MF	20%	16V	C1321	1-123-356-00	ELECT	10MF	20%	25V
C337	1-102-112-00	CERAMIC	330PF	10%	50V	C1322	1-101-004-00	CERAMIC	0.01MF		50V
C341	1-123-380-00	ELECT	1MF	20%	50V	C1323	1-123-356-00	ELECT	10MF	20%	25V
C346	1-123-380-00	ELECT	1MF	20%	50V	C1324	1-123-332-00	ELECT	47MF	20%	16V
C347	1-102-111-00	CERAMIC	270PF	10%	50V	C1325	1-101-006-00	CERAMIC	0.047MF		50V
C350	1-123-356-00	ELECT	10MF	20%	16V	C1326	1-101-006-00	CERAMIC	0.047MF		50V
C351	1-102-074-00	CERAMIC	0.001MF	10%	50V	C1329	1-123-382-00	ELECT	3.3MF	20%	50V
C352	1-101-361-00	CERAMIC	150PF	5%	50V	C1333	1-136-153-00	FILM	0.01MF	5%	50V
C353	1-102-959-00	CERAMIC	22PF	5%	50V	C1334	1-101-004-00	CERAMIC	0.01MF		50V
C354	1-123-380-00	ELECT	1MF	20%	50V	C1336	1-130-479-00	MYLAR	0.0047MF	5%	50V
C355	1-101-005-00	CERAMIC	0.022MF		50V	C1338	1-136-161-00	FILM	0.047MF	5%	50V
C360	1-136-153-00	FILM	0.01MF	5%	50V	C1339	1-136-153-00	FILM	0.01MF	5%	50V
C381	1-102-074-00	CERAMIC	0.001MF	10%	50V	C1341	1-130-479-00	MYLAR	0.0047MF	5%	50V
C382	1-123-332-00	ELECT	47MF	20%	16V	C1343	1-136-161-00	FILM	0.047MF	5%	50V
C402	1-136-167-00	FILM	0.15MF	5%	50V	C1344	1-136-153-00	FILM	0.01MF	5%	50V
C404	1-136-165-00	FILM	0.1MF	5%	50V	C1346	1-130-479-00	MYLAR	0.0047MF	5%	50V
C405	1-102-961-00	CERAMIC	27PF	5%	50V	C1351	1-123-356-00	ELECT	10MF	20%	25V
C406	1-101-890-00	CERAMIC	75PF	5%	50V	C1352	1-123-332-00	ELECT	47MF	20%	16V
C408	1-123-356-00	ELECT	10MF	20%	16V	C1353	1-102-973-00	CERAMIC	100PF	5%	50V
C410	1-123-356-00	ELECT	10MF	20%	50V	C1354	1-136-157-00	FILM	0.022MF	5%	50V
C411	1-136-161-00	FILM	0.047MF	5%	50V	C1355	1-123-379-00	ELECT	0.47MF	20%	50V
C412	1-102-119-00	CERAMIC	0.0015MF	10%	50V	C1356	1-136-165-00	FILM	0.1MF	5%	50V
C413	1-123-380-00	ELECT	1MF	20%	50V	C1357	1-123-380-00	ELECT	1MF	20%	50V
C414	1-136-173-00	FILM	0.47MF	5%	50V	C1358	1-123-369-00	ELECT	4.7MF	20%	50V
C415	1-101-005-00	CERAMIC	0.022MF		50V	C1359	1-102-820-00	CERAMIC	330PF	5%	50V
C416	1-123-356-00	ELECT	10MF	20%	16V	C1360	1-102-820-00	CERAMIC	330PF	5%	50V
C417	1-123-356-00	ELECT	10MF	20%	16V	C1361	1-102-129-00	CERAMIC	0.01MF	10%	50V
C418	1-136-161-00	FILM	0.047MF	5%	50V	C1362	1-130-475-00	MYLAR	0.0022MF	5%	50V
C419	1-123-380-00	ELECT	1MF	20%	50V	C1390	1-101-004-00	CERAMIC	0.01MF		50V
C420	1-101-890-00	CERAMIC	75PF	5%	50V	C1391	1-123-356-00	ELECT	10MF	20%	16V
C421	1-102-961-00	CERAMIC	27PF	5%	50V	C1392	1-123-356-00	ELECT	10MF	20%	16V
C423	1-136-165-00	FILM	0.1MF	5%	50V	C1393	1-101-004-00	CERAMIC	0.01MF		50V
C424	1-123-356-00	ELECT	10MF	20%	16V	TRIMMER					
C425	1-102-888-00	CERAMIC	150PF	5%	50V	CT358	1-141-181-11	CAP, TRIMMER			
C426	1-101-004-00	CERAMIC	0.01MF		50V	CT443	1-141-181-11	CAP, TRIMMER			
C427	1-101-006-00	CERAMIC	0.047MF		50V	DIODE					
C428	1-102-121-00	CERAMIC	0.0022MF	10%	50V	D101	8-719-109-97	DIODE RD6.8ES-B2			
C429	1-136-161-00	FILM	0.047MF	5%	50V	D102	8-719-109-97	DIODE RD6.8ES-B2			
C430	1-102-971-00	CERAMIC	82PF	5%	50V	D103	8-719-911-19	DIODE 1SS119			
C434	1-102-112-00	CERAMIC	330PF	10%	50V	D104	8-719-109-68	DIODE RD3.6ES-B1			
C452	1-136-169-00	FILM	0.22MF	5%	50V	D108	8-719-911-19	DIODE 1SS119			
C453	1-123-333-00	ELECT	100MF	20%	16V	D110	8-719-911-19	DIODE 1SS119			
C454	1-102-963-00	CERAMIC	33PF	5%	50V	D111	8-719-110-08	DIODE RD8.2ES-B2			
C466	1-102-115-00	CERAMIC	560PF	10%	50V	D112	8-719-911-19	DIODE 1SS119			
C470	1-123-333-00	ELECT	100MF	20%	16V	D113	8-719-911-19	DIODE 1SS119			
C472	1-123-381-00	ELECT	2.2MF	20%	50V	D114	8-719-911-19	DIODE 1SS119			
C473	1-102-978-00	CERAMIC	220PF	5%	50V	D115	8-719-109-83	DIODE RD5.1ES-B			
C474	1-102-662-00	CERAMIC	7PF	0.5PF	50V	D116	8-719-109-90	DIODE RD5.6ES-B3			
C475	1-102-662-00	CERAMIC	7PF	0.5PF	50V	D117	8-719-911-19	DIODE 1SS119			
C476	1-102-662-00	CERAMIC	7PF	0.5PF	50V	D118	8-719-911-19	DIODE 1SS119			
C477	1-102-662-00	CERAMIC	7PF	0.5PF	50V	D120	8-719-911-19	DIODE 1SS119			
C481	1-108-614-91	MYLAR	0.001MF	10%	100V	D121	8-719-911-19	DIODE 1SS119			
C482	1-102-820-00	CERAMIC	330PF	5%	50V	D123	8-719-911-19	DIODE 1SS119			
C484	1-136-165-00	FILM	0.1MF	5%	50V	D124	8-719-911-19	DIODE 1SS119			
C486	1-102-980-00	CERAMIC	270PF	5%	50V	D125	8-719-911-19	DIODE 1SS119			
C1301	1-101-004-00	CERAMIC	0.01MF		50V	D126	8-719-109-95	DIODE RD6.8ES-B			
C1302	1-124-767-00	ELECT	2.2MF	20%	50V	D127	8-719-109-95	DIODE RD6.8ES-B			
C1304	1-123-356-00	ELECT	10MF	20%	16V	D305	8-719-911-19	DIODE 1SS119			
C1305	1-136-161-00	FILM	0.047MF	5%	50V	D306	8-719-911-19	DIODE 1SS119			
C1306	1-123-380-00	ELECT	1MF	20%	50V	D307	8-719-911-19	DIODE 1SS119			
C1316	1-123-356-00	ELECT	10MF	20%	25V	D308	8-719-911-19	DIODE 1SS119			
C1317	1-123-380-00	ELECT	1MF	20%	50V	D309	8-719-911-19	DIODE 1SS119			
C1318	1-123-380-00	ELECT	1MF	20%	50V	D334	8-719-110-17	DIODE RD10ES-B2			
C1319	1-123-380-00	ELECT	1MF	20%	50V						
C1320	1-123-382-00	ELECT	3.3MF	20%	50V						

B

Ref.No	Part No.	Description
D335	8-719-911-19	DIODE 1SS119
D339	8-719-911-19	DIODE 1SS119
D340	8-719-911-19	DIODE 1SS119
D341	8-719-911-19	DIODE 1SS119
D342	8-719-110-17	DIODE RD10ES-B2

D343	8-719-110-17	DIODE RD10ES-B2
D344	8-719-110-17	DIODE RD10ES-B2
D345	8-719-911-19	DIODE 1SS119
D351	8-719-911-19	DIODE 1SS119
D354	8-719-911-19	DIODE 1SS119

D361	8-719-911-19	DIODE 1SS119
D362	8-719-911-19	DIODE 1SS119
D391	8-719-911-19	DIODE 1SS119
D392	8-719-911-19	DIODE 1SS119
D401	8-719-911-19	DIODE 1SS119

D442	8-719-911-19	DIODE 1SS119
D443	8-719-911-19	DIODE 1SS119
D444	8-719-911-19	DIODE 1SS119
D445	8-719-911-19	DIODE 1SS119
D450	8-719-911-19	DIODE 1SS119

D454	8-719-911-19	DIODE 1SS119
D457	8-719-911-19	DIODE 1SS119

DELAY LINE

DL301	1-415-122-31	DELAY LINE, 1H (PAL)
DL401	1-415-380-11	DELAY LINE, Y

IC

IC101	8-759-140-16	IC UPD7508HCU-258
IC102	8-752-321-18	IC CXK1005P
IC103	8-759-102-28	IC UPD6326C
IC104	8-759-182-43	IC UPD8243C(M)
IC106	8-759-207-07	IC TD62381P

IC107	8-759-207-07	IC TD62381P
IC110	8-759-140-66	IC UPD4066BC
IC121	8-759-171-05	IC UPC7805HC
*4-363-146-00 HEAT SINK, V.OUT; IC121		
IC122	8-759-700-06	IC NJM7812B

*4-323-833-00 HEAT SINK, PIN OUT; IC122		
IC301	8-752-030-86	IC CXA1001AP
IC302	8-752-030-31	IC CXA1024S
IC311	8-759-240-73	IC TC40738P
IC401	8-751-750-00	IC CX-175

IC411	8-759-135-80	IC UPC358C
IC412	8-759-140-66	IC UPD4066BC

COIL

L101	1-408-424-00	INDUCTOR 180UH
L104	1-408-424-00	INDUCTOR 180UH
L105	1-408-424-00	INDUCTOR 180UH
L161	1-407-364-00	COIL, SPOOK CHOKE 3.3UH
L333	1-408-416-00	INDUCTOR 39UH

L337	1-408-160-00	INDUCTOR 15MMH
L405	1-404-496-00	COIL
L406	1-408-411-00	INDUCTOR 15UH
L420	1-408-411-00	INDUCTOR 15UH
L421	1-404-496-00	COIL

L430	1-408-245-00	INDUCTOR 22MMH
L431	1-408-414-00	INDUCTOR 27UH
L432	1-408-415-00	INDUCTOR 33UH
L435	1-408-407-00	INDUCTOR 6.8UH
L451	1-404-495-00	COIL

L452	1-404-495-00	COIL
L455	1-408-163-00	INDUCTOR 5.6MMH

Remark	Ref.No	Part No.	Description
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IC LINK

PS1	1-532-605-00	LINK, IC
PS2	1-532-637-00	LINK, IC

TRANSISTOR

Q101	8-729-117-54	TRANSISTOR 2SA1175
Q102	8-729-117-54	TRANSISTOR 2SA1175
Q103	8-729-178-54	TRANSISTOR 2SC2785
Q104	8-729-178-54	TRANSISTOR 2SC2785
Q105	8-729-178-54	TRANSISTOR 2SC2785

Q107	8-729-900-36	TRANSISTOR DTC124ES
Q108	8-729-178-54	TRANSISTOR 2SC2785
Q109	8-729-117-54	TRANSISTOR 2SA1175
Q110	8-729-117-54	TRANSISTOR 2SA1175
Q111	8-729-103-43	TRANSISTOR 2SB734

Q112	8-729-178-54	TRANSISTOR 2SC2785
Q113	8-729-178-54	TRANSISTOR 2SC2785
Q114	8-729-178-54	TRANSISTOR 2SC2785
Q115	8-729-900-36	TRANSISTOR DTC124ES
Q116	8-729-117-54	TRANSISTOR 2SA1175

Q117	8-729-178-54	TRANSISTOR 2SC2785
Q118	8-729-117-54	TRANSISTOR 2SA1175
Q119	8-729-117-54	TRANSISTOR 2SA1175
Q121	8-729-133-42	TRANSISTOR 2SC2334-L
*4-363-146-00 HEAT SINK, V.OUT; Q121		

Q122	8-729-117-54	TRANSISTOR 2SA1175
Q123	8-729-178-54	TRANSISTOR 2SC2785
Q301	8-729-117-54	TRANSISTOR 2SA1175
Q309	8-729-178-54	TRANSISTOR 2SC2785
Q310	8-729-117-54	TRANSISTOR 2SA1175

Q311	8-729-177-32	TRANSISTOR 2SD773
Q315	8-729-178-54	TRANSISTOR 2SC2785
Q316	8-729-178-54	TRANSISTOR 2SC2785
Q321	8-729-178-54	TRANSISTOR 2SC2785
Q322	8-729-178-54	TRANSISTOR 2SC2785

Q324	8-729-178-54	TRANSISTOR 2SC2785
Q331	8-729-178-54	TRANSISTOR 2SC2785
Q341	8-729-178-54	TRANSISTOR 2SC2785
Q342	8-729-178-54	TRANSISTOR 2SC2785
Q343	8-729-178-54	TRANSISTOR 2SC2785

Q353	8-729-178-54	TRANSISTOR 2SC2785
Q354	8-729-900-36	TRANSISTOR DTC124ES
Q355	8-729-178-54	TRANSISTOR 2SC2785
Q357	8-729-117-54	TRANSISTOR 2SA1175
Q358	8-729-900-36	TRANSISTOR DTC124ES

Q361	8-729-117-54	TRANSISTOR 2SA1175
Q362	8-729-117-54	TRANSISTOR 2SA1175
Q363	8-729-117-54	TRANSISTOR 2SA1175
Q371	8-729-178-54	TRANSISTOR 2SC2785
Q372	8-729-178-54	TRANSISTOR 2SC2785

Q373	8-729-178-54	TRANSISTOR 2SC2785
Q374	8-729-178-54	TRANSISTOR 2SC2785
Q390	8-729-178-54	TRANSISTOR 2SC2785
Q391	8-729-178-54	TRANSISTOR 2SC2785
Q392	8-729-178-54	TRANSISTOR 2SC2785

Q393	8-729-117-54	TRANSISTOR 2SA1175
Q400	8-729-178-54	TRANSISTOR 2SC2785
Q401	8-729-178-54	TRANSISTOR 2SC2785
Q402	8-729-178-54	TRANSISTOR 2SC2785
Q403	8-729-117-54	TRANSISTOR 2SA1175

Q405	8-729-178-54	TRANSISTOR 2SC2785
Q406	8-729-117-54	TRANSISTOR 2SA1175
Q407	8-729-178-54	TRANSISTOR 2SC2785
Q450	8-729-117-54	TRANSISTOR 2SA1175
Q451	8-729-178-54	TRANSISTOR 2SC2785

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
Q452	8-729-178-54	TRANSISTOR 2SC2785		R155	1-247-717-11	CARBON 2.2K 5%	1/4W
Q453	8-729-117-54	TRANSISTOR 2SA1175		R156	1-249-423-11	CARBON 3.3K 5%	1/4W
Q454	8-729-117-54	TRANSISTOR 2SA1175		R157	1-249-433-11	CARBON 22K 5%	1/4W
Q455	8-729-178-54	TRANSISTOR 2SC2785		R158	1-249-417-11	CARBON 1K 5%	1/4W
Q456	8-729-117-54	TRANSISTOR 2SA1175		R159	1-249-418-11	CARBON 1.2K 5%	1/4W
Q457	8-729-178-54	TRANSISTOR 2SC2785		R160	1-249-397-11	CARBON 22 5%	1/4W
Q458	8-729-117-54	TRANSISTOR 2SA1175		R161	1-249-397-11	CARBON 22 5%	1/4W
Q459	8-729-117-54	TRANSISTOR 2SA1175		R162	1-249-397-11	CARBON 22 5%	1/4W
Q460	8-729-178-54	TRANSISTOR 2SC2785		R163	1-249-397-11	CARBON 22 5%	1/4W
Q461	8-729-178-54	TRANSISTOR 2SC2785		R164	1-249-397-11	CARBON 22 5%	1/4W
Q1301	8-729-178-54	TRANSISTOR 2SC2785		R165	1-247-692-11	CARBON 22 5%	1/4W
Q1302	8-729-178-54	TRANSISTOR 2SC2785		R166	1-249-397-11	CARBON 22 5%	1/4W
Q1303	8-729-117-54	TRANSISTOR 2SA1175		R167	1-249-397-11	CARBON 22 5%	1/4W
RESISTOR				R168	1-249-397-11	CARBON 22 5%	1/4W
R101	1-249-395-11	CARBON 15 5%	1/4W	R169	1-249-397-11	CARBON 22 5%	1/4W
R102	1-249-395-11	CARBON 15 5%	1/4W	R170	1-249-397-11	CARBON 22 5%	1/4W
R103	1-249-441-11	CARBON 100K 5%	1/4W	R171	1-249-397-11	CARBON 22 5%	1/4W
R104	1-249-441-11	CARBON 100K 5%	1/4W	R172	1-249-397-11	CARBON 22 5%	1/4W
R105	1-249-404-00	CARBON 82 5%	1/4W	R173	1-249-397-11	CARBON 22 5%	1/4W
R106	1-249-413-11	CARBON 470 5%	1/4W	R174	1-249-429-11	CARBON 10K 5%	1/4W
R107	1-249-411-11	CARBON 330 5%	1/4W	R175	1-249-429-11	CARBON 10K 5%	1/4W
R108	1-249-441-11	CARBON 100K 5%	1/4W	R176	1-247-725-11	CARBON 10K 5%	1/4W
R109	1-249-433-11	CARBON 22K 5%	1/4W	R177	1-249-433-11	CARBON 22K 5%	1/4W
R110	1-249-465-11	CARBON 47K 5%	1/4W	R178	1-249-433-11	CARBON 22K 5%	1/4W
R111	1-249-437-11	CARBON 47K 5%	1/4W	R179	1-249-425-11	CARBON 4.7K 5%	1/4W
R114	1-249-437-11	CARBON 47K 5%	1/4W	R181	1-249-435-11	CARBON 33K 5%	1/4W
R116	1-249-414-11	CARBON 560 5%	1/4W	R182	1-249-426-11	CARBON 5.6K 5%	1/4W
R117	1-249-429-11	CARBON 10K 5%	1/4W	R183	1-249-433-11	CARBON 22K 5%	1/4W
R118	1-249-429-11	CARBON 10K 5%	1/4W	R184	1-249-435-11	CARBON 33K 5%	1/4W
R119	1-249-429-11	CARBON 10K 5%	1/4W	R185	1-247-713-11	CARBON 1K 5%	1/4W
R121	1-215-867-00	METAL OXIDE 470 5%	1W F	R186	1-249-417-11	CARBON 1K 5%	1/4W
R122	1-249-417-11	CARBON 1K 5%	1/4W	R187	1-249-417-11	CARBON 1K 5%	1/4W
R123	1-216-357-00	METAL OXIDE 4.7 5%	1W F	R188	1-249-417-11	CARBON 1K 5%	1/4W
R124	1-249-433-11	CARBON 22K 5%	1/4W	R189	1-249-417-11	CARBON 1K 5%	1/4W
R125	1-249-435-11	CARBON 33K 5%	1/4W	R190	1-249-417-11	CARBON 1K 5%	1/4W
R126	1-249-431-11	CARBON 15K 5%	1/4W	R191	1-249-414-11	CARBON 560 5%	1/4W
R127	1-249-417-11	CARBON 1K 5%	1/4W	R192	1-249-417-11	CARBON 1K 5%	1/4W
R128	1-249-434-11	CARBON 27K 5%	1/4W	R193	1-249-423-11	CARBON 3.3K 5%	1/4W
R129	1-247-717-11	CARBON 2.2K 5%	1/4W	R194	1-249-423-11	CARBON 3.3K 5%	1/4W
R130	1-247-706-11	CARBON 330 5%	1/4W	R195	1-249-421-11	CARBON 2.2K 5%	1/4W
R131	1-249-409-11	CARBON 220 5%	1/4W	R196	1-249-414-11	CARBON 560 5%	1/4W
R132	1-249-409-11	CARBON 220 5%	1/4W	R197	1-249-421-11	CARBON 2.2K 5%	1/4W
R133	1-249-421-11	CARBON 2.2K 5%	1/4W	R198	1-249-405-11	CARBON 100 5%	1/4W
R134	1-249-421-11	CARBON 2.2K 5%	1/4W	R199	1-249-417-11	CARBON 1K 5%	1/4W
R135	1-249-437-11	CARBON 47K 5%	1/4W	R303	1-249-469-11	CARBON 100K 5%	1/4W
R136	1-249-417-11	CARBON 1K 5%	1/4W	R304	1-249-436-11	CARBON 39K 5%	1/4W
R137	1-249-421-11	CARBON 2.2K 5%	1/4W	R305	1-247-883-00	CARBON 150K 5%	1/4W
R138	1-249-421-11	CARBON 2.2K 5%	1/4W	R306	1-249-435-11	CARBON 33K 5%	1/4W
R139	1-249-421-11	CARBON 2.2K 5%	1/4W	R308	1-249-409-11	CARBON 220 5%	1/4W
R140	1-249-421-11	CARBON 2.2K 5%	1/4W	R310	1-249-462-11	CARBON 22K 5%	1/4W
R141	1-247-717-11	CARBON 2.2K 5%	1/4W	R311	1-249-439-11	CARBON 68K 5%	1/4W
R142	1-249-421-11	CARBON 2.2K 5%	1/4W	R312	1-249-439-11	CARBON 68K 5%	1/4W
R143	1-249-429-11	CARBON 10K 5%	1/4W	R313	1-249-421-11	CARBON 2.2K 5%	1/4W
R144	1-249-429-11	CARBON 10K 5%	1/4W	R314	1-249-409-11	CARBON 220 5%	1/4W
R145	1-249-437-11	CARBON 47K 5%	1/4W	R315	1-249-433-11	CARBON 22K 5%	1/4W
R146	1-249-425-11	CARBON 4.7K 5%	1/4W	R316	1-249-435-11	CARBON 33K 5%	1/4W
R147	1-249-441-11	CARBON 100K 5%	1/4W	R317	1-249-421-11	CARBON 2.2K 5%	1/4W
R148	1-249-434-11	CARBON 27K 5%	1/4W	R318	1-249-409-11	CARBON 220 5%	1/4W
R149	1-249-427-11	CARBON 6.8K 5%	1/4W	R319	1-249-433-11	CARBON 22K 5%	1/4W
R150	1-249-427-11	CARBON 6.8K 5%	1/4W	R320	1-249-435-11	CARBON 33K 5%	1/4W
R151	1-249-423-11	CARBON 3.3K 5%	1/4W	R321	1-249-435-11	CARBON 33K 5%	1/4W
R152	1-249-421-11	CARBON 2.2K 5%	1/4W	R322	1-249-429-11	CARBON 10K 5%	1/4W
R153	1-249-421-11	CARBON 2.2K 5%	1/4W	R323	1-249-441-11	CARBON 100K 5%	1/4W
R154	1-249-421-11	CARBON 2.2K 5%	1/4W	R324	1-249-441-11	CARBON 100K 5%	1/4W
				R326	1-249-441-11	CARBON 100K 5%	1/4W

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
R327	1-249-423-11	CARBON	3.3K 5% 1/4W	R401	1-249-412-11	CARBON	390 5% 1/4W
R328	1-249-423-11	CARBON	3.3K 5% 1/4W	R402	1-247-717-11	CARBON	2.2K 5% 1/4W
R329	1-249-423-11	CARBON	3.3K 5% 1/4W	R403	1-249-427-11	CARBON	6.8K 5% 1/4W
R330	1-249-417-11	CARBON	1K 5% 1/4W	R404	1-249-429-11	CARBON	10K 5% 1/4W
R331	1-215-493-00	CARBON	1M 5% 1/4W	R406	1-249-412-11	CARBON	390 5% 1/4W
R332	1-215-479-00	CARBON	270K 5% 1/4W	R410	1-249-422-11	CARBON	2.7K 5% 1/4W
R333	1-249-414-11	CARBON	560 5% 1/4W	R411	1-215-489-00	CARBON	680K 5% 1/4W
R334	1-247-883-00	CARBON	150K 5% 1/4W	R412	1-249-417-11	CARBON	1K 5% 1/4W
R335	1-249-413-11	CARBON	470 5% 1/4W	R413	1-249-425-11	CARBON	4.7K 5% 1/4W
R336	1-249-409-11	CARBON	220 5% 1/4W	R414	1-249-438-11	CARBON	56K 5% 1/4W
R337	1-249-427-11	CARBON	6.8K 5% 1/4W	R415	1-249-429-11	CARBON	10K 5% 1/4W
R338	1-249-421-11	CARBON	2.2K 5% 1/4W	R418	1-247-720-11	CARBON	3.9K 5% 1/4W
R339	1-249-417-11	CARBON	1K 5% 1/4W	R419	1-249-429-11	CARBON	10K 5% 1/4W
R340	1-249-421-11	CARBON	2.2K 5% 1/4W	R420	1-249-412-11	CARBON	390 5% 1/4W
R341	1-249-422-11	CARBON	2.7K 5% 1/4W	R421	1-249-438-11	CARBON	56K 5% 1/4W
R342	1-249-428-11	CARBON	8.2K 5% 1/4W	R422	1-249-427-11	CARBON	6.8K 5% 1/4W
R343	1-249-433-11	CARBON	22K 5% 1/4W	R425	1-249-408-11	CARBON	180 5% 1/4W
R345	1-249-439-11	CARBON	68K 5% 1/4W	R426	1-249-435-11	CARBON	33K 5% 1/4W
R346	1-249-426-11	CARBON	5.6K 5% 1/4W	R427	1-249-423-11	CARBON	3.3K 5% 1/4W
R350	1-249-413-11	CARBON	470 5% 1/4W	R429	1-249-429-11	CARBON	10K 5% 1/4W
R351	1-249-405-11	CARBON	100 5% 1/4W	R430	1-249-423-11	CARBON	3.3K 5% 1/4W
R352	1-249-433-11	CARBON	22K 5% 1/4W	R431	1-249-425-11	CARBON	4.7K 5% 1/4W
R353	1-249-420-11	CARBON	1.8K 5% 1/4W	R432	1-249-428-11	CARBON	8.2K 5% 1/4W
R354	1-249-435-11	CARBON	33K 5% 1/4W	R433	1-249-428-11	CARBON	8.2K 5% 1/4W
R355	1-249-433-11	CARBON	22K 5% 1/4W	R434	1-249-418-11	CARBON	1.2K 5% 1/4W
R356	1-249-437-11	CARBON	47K 5% 1/4W	R435	1-249-417-11	CARBON	1K 5% 1/4W
R357	1-249-430-11	CARBON	12K 5% 1/4W	R436	1-249-421-11	CARBON	2.2K 5% 1/4W
R358	1-249-435-11	CARBON	33K 5% 1/4W	R437	1-249-431-11	CARBON	15K 5% 1/4W
R359	1-247-883-00	CARBON	150K 5% 1/4W	R438	1-249-431-11	CARBON	15K 5% 1/4W
R360	1-247-708-11	CARBON	470 5% 1/4W	R439	1-249-418-11	CARBON	1.2K 5% 1/4W
R361	1-249-417-11	CARBON	1K 5% 1/4W	R440	1-249-417-11	CARBON	1K 5% 1/4W
R362	1-249-429-11	CARBON	10K 5% 1/4W	R441	1-249-420-11	CARBON	1.8K 5% 1/4W
R363	1-249-417-11	CARBON	1K 5% 1/4W	R442	1-249-421-11	CARBON	2.2K 5% 1/4W
R364	1-249-412-11	CARBON	390 5% 1/4W	R443	1-249-408-11	CARBON	180 5% 1/4W
R365	1-247-723-11	CARBON	6.8K 5% 1/4W	R444	1-249-439-11	CARBON	68K 5% 1/4W
R366	1-247-891-00	CARBON	330K 5% 1/4W	R445	1-249-431-11	CARBON	15K 5% 1/4W
R367	1-249-437-11	CARBON	47K 5% 1/4W	R446	1-249-417-11	CARBON	1K 5% 1/4W
R368	1-249-428-11	CARBON	8.2K 5% 1/4W	R447	1-249-414-11	CARBON	560 5% 1/4W
R370	1-249-419-11	CARBON	1.5K 5% 1/4W	R448	1-249-393-11	CARBON	10 5% 1/4W
R371	1-249-435-11	CARBON	33K 5% 1/4W	R449	1-249-418-11	CARBON	1.2K 5% 1/4W
R372	1-249-441-11	CARBON	100K 5% 1/4W	R450	1-249-419-11	CARBON	1.5K 5% 1/4W
R373	1-249-435-11	CARBON	33K 5% 1/4W	R451	1-249-420-11	CARBON	1.8K 5% 1/4W
R374	1-249-435-11	CARBON	33K 5% 1/4W	R452	1-249-393-11	CARBON	10 5% 1/4W
R375	1-249-423-11	CARBON	3.3K 5% 1/4W	R453	1-249-419-11	CARBON	1.5K 5% 1/4W
R377	1-249-412-11	CARBON	390 5% 1/4W	R454	1-249-419-11	CARBON	1.5K 5% 1/4W
R378	1-249-414-11	CARBON	560 5% 1/4W	R456	1-249-409-11	CARBON	220 5% 1/4W
R379	1-249-429-11	CARBON	10K 5% 1/4W	R457	1-249-435-11	CARBON	33K 5% 1/4W
R380	1-249-437-11	CARBON	47K 5% 1/4W	R458	1-249-425-11	CARBON	4.7K 5% 1/4W
R381	1-249-440-11	CARBON	82K 5% 1/4W	R460	1-249-436-11	CARBON	39K 5% 1/4W
R382	1-249-438-11	CARBON	56K 5% 1/4W	R461	1-249-431-11	CARBON	15K 5% 1/4W
R383	1-215-479-00	CARBON	270K 5% 1/4W	R462	1-249-421-11	CARBON	2.2K 5% 1/4W
R384	1-249-425-11	CARBON	4.7K 5% 1/4W	R463	1-249-422-11	CARBON	2.7K 5% 1/4W
R385	1-249-414-11	CARBON	560 5% 1/4W	R464	1-249-409-11	CARBON	220 5% 1/4W
R386	1-249-429-11	CARBON	10K 5% 1/4W	R465	1-249-435-11	CARBON	33K 5% 1/4W
R387	1-249-417-11	CARBON	1K 5% 1/4W	R466	1-247-721-11	CARBON	4.7K 5% 1/4W
R388	1-215-483-00	CARBON	390K 5% 1/4W	R467	1-215-456-00	CARBON	30K 5% 1/4W
R389	1-249-433-11	CARBON	22K 5% 1/4W	R468	1-249-429-11	CARBON	10K 5% 1/4W
R390	1-249-433-11	CARBON	22K 5% 1/4W	R470	1-249-420-11	CARBON	1.8K 5% 1/4W
R391	1-249-437-11	CARBON	47K 5% 1/4W	R471	1-249-425-11	CARBON	4.7K 5% 1/4W
R392	1-249-431-11	CARBON	15K 5% 1/4W	R472	1-249-420-11	CARBON	1.8K 5% 1/4W
R393	1-249-435-11	CARBON	33K 5% 1/4W	R473	1-249-425-11	CARBON	4.7K 5% 1/4W
R394	1-249-429-11	CARBON	10K 5% 1/4W	R474	1-249-417-11	CARBON	1K 5% 1/4W
R395	1-247-895-00	CARBON	470K 5% 1/4W	R475	1-249-405-11	CARBON	100 5% 1/4W
R396	1-249-419-11	CARBON	1.5K 5% 1/4W	R476	1-249-416-11	CARBON	820 5% 1/4W
R398	1-249-420-11	CARBON	1.8K 5% 1/4W	R477	1-249-413-11	CARBON	470 5% 1/4W

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Ref.No	Part No.	Description			
R478	1-249-421-11	CARBON	2.2K	5%	1/4W
R479	1-249-421-11	CARBON	2.2K	5%	1/4W
R480	1-249-429-11	CARBON	10K	5%	1/4W
R481	1-249-429-11	CARBON	10K	5%	1/4W
R482	1-249-421-11	CARBON	2.2K	5%	1/4W
R483	1-249-421-11	CARBON	2.2K	5%	1/4W
R484	1-249-433-11	CARBON	22K	5%	1/4W
R485	1-249-417-11	CARBON	1K	5%	1/4W
R486	1-249-435-11	CARBON	33K	5%	1/4W
R487	1-249-435-11	CARBON	33K	5%	1/4W
R488	1-249-435-11	CARBON	33K	5%	1/4W
R1100	1-249-405-11	CARBON	100	5%	1/4W
R1101	1-249-437-11	CARBON	47K	5%	1/4W
R1102	1-249-429-11	CARBON	10K	5%	1/4W
R1105	1-249-431-11	CARBON	15K	5%	1/4W
R1106	1-249-399-11	CARBON	33	5%	1/4W
R1107	1-249-437-11	CARBON	47K	5%	1/4W
R1108	1-249-405-11	CARBON	100	5%	1/4W
R1109	1-249-429-11	CARBON	10K	5%	1/4W
R1110	1-249-421-11	CARBON	2.2K	5%	1/4W
R1111	1-249-437-11	CARBON	47K	5%	1/4W
R1112	1-249-441-11	CARBON	100K	5%	1/4W
R1113	1-249-409-11	CARBON	220	5%	1/4W
R1114	1-249-393-11	CARBON	10	5%	1/4W
R1115	1-249-425-11	CARBON	4.7K	5%	1/4W
R1304	1-247-704-11	CARBON	220	5%	1/4W
R1305	1-247-704-11	CARBON	220	5%	1/4W
R1306	1-247-704-11	CARBON	220	5%	1/4W
R1307	1-247-704-11	CARBON	220	5%	1/4W
R1308	1-249-429-11	CARBON	10K	5%	1/4W
R1309	1-247-704-11	CARBON	220	5%	1/4W
R1310	1-249-431-11	CARBON	15K	5%	1/4W
R1311	1-249-409-11	CARBON	220	5%	1/4W
R1312	1-249-440-11	CARBON	82K	5%	1/4W
R1313	1-247-725-11	CARBON	10K	5%	1/4W
R1314	1-249-429-11	CARBON	10K	5%	1/4W
R1315	1-249-435-11	CARBON	33K	5%	1/4W
R1316	1-249-435-11	CARBON	33K	5%	1/4W
R1317	1-249-417-11	CARBON	1K	5%	1/4W
R1318	1-249-417-11	CARBON	1K	5%	1/4W
R1319	1-249-417-11	CARBON	1K	5%	1/4W
R1320	1-249-409-11	CARBON	220	5%	1/4W
R1322	1-249-433-11	CARBON	22K	5%	1/4W
R1323	1-249-429-11	CARBON	10K	5%	1/4W
R1324	1-249-435-11	CARBON	33K	5%	1/4W
R1325	1-249-409-11	CARBON	220	5%	1/4W
R1326	1-249-409-11	CARBON	220	5%	1/4W
R1327	1-215-493-00	CARBON	1M	5%	1/4W
R1328	1-249-417-11	CARBON	1K	5%	1/4W
R1329	1-247-895-00	CARBON	470K	5%	1/4W
R1330	1-249-417-11	CARBON	1K	5%	1/4W
R1331	1-249-426-11	CARBON	5.6K	5%	1/4W
R1332	1-249-437-11	CARBON	47K	5%	1/4W
R1333	1-249-418-11	CARBON	1.2K	5%	1/4W
R1334	1-249-429-11	CARBON	10K	5%	1/4W
R1335	1-249-409-11	CARBON	220	5%	1/4W
R1337	1-249-405-11	CARBON	100	5%	1/4W
R1339	1-249-414-11	CARBON	560	5%	1/4W
R1340	1-249-409-11	CARBON	220	5%	1/4W
R1341	1-249-437-11	CARBON	47K	5%	1/4W
R1342	1-249-405-11	CARBON	100	5%	1/4W
R1344	1-215-424-00	CARBON	1.3K	5%	1/4W
R1345	1-249-409-11	CARBON	220	5%	1/4W
R1347	1-249-405-11	CARBON	100	5%	1/4W
R1360	1-249-414-11	CARBON	560	5%	1/4W

Ref.No	Part No.	Description				Remark
R1362	1-249-414-11	CARBON	560	5%	1/4W	
R1363	1-215-491-00	CARBON	820K	5%	1/4W	
R1364	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1365	1-249-437-11	CARBON	47K	5%	1/4W	
R1366	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1367	1-202-730-00	SOLID	8.2M	10%	1/2W	
R1368	1-249-411-11	CARBON	330	5%	1/4W	
R1369	1-249-413-11	CARBON	470	5%	1/4W	
R1370	1-249-409-11	CARBON	220	5%	1/4W	
R1371	1-249-413-11	CARBON	470	5%	1/4W	
R1375	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1376	1-215-479-00	CARBON	270K	5%	1/4W	
R1377	1-249-434-11	CARBON	27K	5%	1/4W	
R1378	1-249-410-11	CARBON	270	5%	1/4W	
R1379	1-249-405-11	CARBON	100	5%	1/4W	
R1381	1-249-434-11	CARBON	27K	5%	1/4W	
R1382	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1383	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1384	1-249-411-11	CARBON	330	5%	1/4W	
R1385	1-249-393-11	CARBON	10	5%	1/4W	
R1386	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1388	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1389	1-249-429-11	CARBON	10K	5%	1/4W	
R1390	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1401	1-249-433-11	CARBON	22K	5%	1/4W	
R1402	1-249-433-11	CARBON	22K	5%	1/4W	
R1403	1-249-433-11	CARBON	22K	5%	1/4W	
R1404	1-249-433-11	CARBON	22K	5%	1/4W	
R1405	1-249-437-11	CARBON	47K	5%	1/4W	
R1406	1-249-437-11	CARBON	47K	5%	1/4W	
R1407	1-249-437-11	CARBON	47K	5%	1/4W	
R1408	1-249-437-11	CARBON	47K	5%	1/4W	
R1409	1-247-704-11	CARBON	220	5%	1/4W	F
R1410	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1411	1-247-725-11	CARBON	10K	5%	1/4W	
R1412	1-249-429-11	CARBON	10K	5%	1/4W	
R1413	1-249-421-11	CARBON	2.2K	5%	1/4W	
VARIABLE RESISTOR						
RV301	1-230-626-41	RES, ADJ, CARBON	470			
RV302	1-228-995-00	RES, ADJ, CARBON	22K			
RV303	1-230-630-11	RES, ADJ, CARBON	10K			
RV318	1-228-993-00	RES, ADJ, CARBON	4.7K			
RV1301	1-228-991-00	RES, ADJ, CARBON	2.2K			
RV1302	1-228-991-00	RES, ADJ, CARBON	2.2K			
TRANSFORMER						
T301	1-404-524-11	DAT				
T401	1-404-584-11	COIL				
CRYSTAL						
X101	1-567-192-11	OSCILLATOR, CERAMIC				
X358	1-567-505-11	OSCILLATOR, CRYSTAL				
X443	1-567-504-11	OSCILLATOR, CRYSTAL				

*1-621-546-11 FB BOARD						

CAPACITOR						
C1601	1-106-367-00	MYLAR	0.01MF	10%	200V	

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KX-27HG2
RM-668

FB FA

Ref.No Part No. Description

CONNECTOR

FB1 1-506-347-21 4P PLUG
FB2 *1-508-784-00 1P PLUG

COIL

L1601 1-459-407-00 COIL, FERRITE CHOKE

NEON LAMP

NL1691 1-519-237-11 LAMP, NEON

RESISTOR

R1601 1-216-423-11 METAL OXIDE 27 5% 1W F

*A-1245-426-A FA BOARD, COMPLETE

1-564-529-11 CONNECTOR, BOARD TO BOARD 5P

CAPACITOR

C601 Δ 1-136-360-51 FILM 0.22MF 20% 250V
C602 1-136-360-00 FILM 0.22MF 20% 250V
C603 1-136-360-00 FILM 0.22MF 20% 250V
C604 1-161-738-00 CERAMIC 0.0047MF 20% 400V
C605 1-161-738-00 CERAMIC 0.0047MF 20% 400V

C606 1-161-738-00 CERAMIC 0.0047MF 20% 400V
C607 1-161-738-00 CERAMIC 0.0047MF 20% 400V
C608 Δ 1-161-738-12 CERAMIC 0.0047MF 20% 400V
C609 1-161-738-00 CERAMIC 0.0047MF 20% 400V
C611 1-125-380-11 ELECT(BLOCK) 430MF 20% 400V

C612 1-102-030-00 CERAMIC 330PF 10% 500V
C613 1-123-946-00 ELECT 4.7MF 20% 250V
C614 1-129-709-00 FILM 0.0039MF 10% 630V
C615 1-129-765-00 FILM 0.047MF 10% 200V
C616 1-124-798-11 ELECT 1MF 20% 160V

C617 1-123-379-00 ELECT 0.47MF 20% 50V
C618 1-162-318-11 CERAMIC 0.001MF 10% 500V
C626 1-162-131-11 CERAMIC 220PF 10% 2KV
C627 1-123-875-11 ELECT 10MF 20% 50V
C629 1-129-709-00 FILM 0.0039MF 10% 630V

C630 1-162-318-11 CERAMIC 0.001MF 10% 500V
C657 1-162-131-11 CERAMIC 220PF 10% 2KV
C658 1-124-038-00 ELECT 1MF 20% 50V
C659 1-108-833-00 MYLAR 0.0047MF 10% 50V
C661 1-125-489-00 ELECT(BLOCK) 560MF 20% 200V

C662 1-162-115-00 CERAMIC 330PF 10% 2KV
C663 1-124-785-51 ELECT 3300MF 20% 25V
C665 1-124-126-00 ELECT 47MF 20% 25V
C666 1-124-127-91 ELECT 100MF 20% 25V
C667 1-124-123-00 ELECT 100MF 20% 10V

C668 Δ 1-124-129-51 ELECT 2200MF 20% 25V
C670 Δ 1-124-789-51 ELECT 2200MF 20% 35V
C671 Δ 1-136-157-91 FILM 0.022MF 5% 50V
C672 Δ 1-136-173-91 FILM 0.47MF 5% 50V
C673 Δ 1-136-165-91 FILM 0.1MF 5% 50V

C674 Δ 1-136-173-91 FILM 0.47MF 5% 50V
C676 1-130-477-00 MYLAR 0.0033MF 5% 50V
C680 1-136-165-00 FILM 0.1MF 5% 50V
C681 1-101-004-00 CERAMIC 0.01MF 50V
C685 1-124-789-11 ELECT 2200MF 20% 35V

DIODE

D601 8-719-503-06 DIODE S3WB60Z
D603 8-719-108-18 THYRISTOR 5P6M

Remark

Ref.No Part No. Description

Remark

*4-347-706-00 HEAT SINK (TR); D603
D604 8-719-110-16 DIODE RD10ES-B1
D611 8-719-118-34 DIODE RD110E-B
D612 8-719-924-06 DIODE ERC24-06S
D613 8-719-924-06 DIODE ERC24-06S

D614 8-719-924-06 DIODE ERC24-06S
D615 8-719-109-97 DIODE RD6.8ES-B2
D616 8-719-924-06 DIODE RD12ES-06S
D620 8-719-109-75 DIODE RD4.3ES-B2
D626 8-719-911-19 DIODE 1SS119

D628 8-759-157-40 IC UPC574J
D654 8-719-911-19 DIODE 1SS119
D655 8-719-112-81 DIODE RD7.5ES-B2
D661 8-719-300-53 DIODE CTU-38S
D662 8-719-300-09 DIODE CTU-24S

*4-347-706-00 HEAT SINK (TR); D662
D663 8-719-110-03 DIODE RD7.5ES-B2
D664 8-719-110-03 DIODE RD7.5ES-B2
D665 8-719-000-12 DIODE MC931
D666 8-719-918-77 DIODE V19G

D667 8-719-911-19 DIODE 1SS119
D668 8-719-300-59 DIODE CTU-12S
*4-347-706-00 HEAT SINK (TR); D668
D669 8-719-300-59 DIODE CTU-12S
D671 8-719-300-59 DIODE CTU-12S

D673 8-719-911-19 DIODE 1SS119
D674 8-719-911-19 DIODE 1SS119
D679 8-719-000-28 THYRISTOR CR02AM-8

CONNECTOR

FA1 1-506-348-XX 3P PLUG (L)
FA2 1-506-348-XX 3P PLUG (L)
FA3 1-508-765-00 3P PLUG (M)
FA4 *1-508-767-00 5P PLUG
FA5 1-506-108-41 PIN, TERMINAL SV
FA6 1-508-765-00 3P PLUG (M)
FA7 *1-566-058-11 PIN, CONNECTOR 6P
FA8 *1-508-784-00 2P PLUG

FUSE

F601 Δ 1-532-299-11 FUSE, TIME-LAG 5A/250V
*1-533-189-11 HOLDER, FUSE; F601

IC

IC602 8-719-939-00 PC111S
IC651 8-759-927-49 IC IR9431

COIL

L651 1-421-329-00 COIL, CHOKE
L652 1-421-329-00 COIL, CHOKE
L653 1-407-780-00 COIL, SPOOK CHOKE
L654 1-421-329-00 COIL, CHOKE
L657 1-407-780-00 COIL, SPOOK CHOKE

IC LINK

PS652 1-532-675-00 LINK, IC
PS653 1-532-686-00 LINK, IC
PS654 1-532-686-00 LINK, IC

TRANSISTOR

Q601 8-729-178-54 TRANSISTOR 2SC2785
Q611 8-729-168-82 TRANSISTOR 2SC2688
Q612 8-729-168-82 TRANSISTOR 2SC2688
4-302-428-00 HEAD, WASHER, TAPPING SCREW; Q612
4-373-088-01 SPACER (13X19), MICA; Q612

FA FC

The components identified by shading and Δ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
Q613	8-729-807-84	TRANSISTOR 2SC3461		<u>VARIABLE RESISTOR</u>			
	4-302-428-00	HEAD, WASHER, TAPPING SCREW; Q613		RV601	1-226-701-00	RES, ADJ, METAL GLAZE 220	
	4-363-414-00	SPACER, MICA; Q613		<u>SPARK GAP</u>			
Q614	8-729-168-82	TRANSISTOR 2SC2688		SG601	1-519-063-XX	DISCHARGING GAP	
Q618	8-729-255-12	TRANSISTOR 2SC2551		<u>TRANSFORMER</u>			
Q661	8-729-109-53	TRANSISTOR 2SD795A		T601 Δ 1-421-662-11	LFT		
	*4-347-706-00	HEAT SINK (TR); Q661		T603 Δ 1-449-139-11	S.R.T		
Q662	8-729-178-54	TRANSISTOR 2SC2785		T604 Δ 1-437-079-11	TRANSFORMER, HORIZONTAL DRIVE		
<u>RESISTOR</u>				<u>THERMISTOR</u>			
R601 Δ	1-205-922-11	WIREWOUND	5.6 5% 7W	THP601 Δ 1-808-059-11	THERMISTOR, POSITIVE		
R603	1-214-937-00	CARBON	1M 5% 1/2W	THP611 Δ 1-807-598-11	THERMISTOR (POSITIVE)		
R607	1-215-892-11	METAL OXIDE	1K 5% 2W F	*****			
R608	1-215-892-11	METAL OXIDE	1K 5% 2W F	*1-624-845-11	FC BOARD		
R609	1-247-289-00	CARBON	8.2M 5% 1W		*****		
R611	1-216-444-11	METAL OXIDE	82K 5% 1W F	*1-562-516-11	CONNECTOR, BOARD TO BOARD 5P		
R612	1-216-444-11	METAL OXIDE	82K 5% 1W F	<u>CAPACITOR</u>			
R613	1-249-494-11	CARBON	68K 5% 1/2W F	C619	1-123-875-11	ELECT	10MF 20% 50V
R614	1-215-922-11	METAL OXIDE	6.8K 5% 3W F	C620	1-124-123-00	ELECT	100MF 20% 10V
R615	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C621	1-130-475-00	FILM	0.0022MF 5% 50V
R616	1-247-706-11	CARBON	330 5% 1/4W	C622	1-104-067-00	POLYSTYRENE	390PF 5% 50V
R617	1-247-719-11	CARBON	3.3K 5% 1/4W	C623	1-124-125-91	ELECT	22MF 20% 25V
R618	1-249-396-11	CARBON	18 5% 1/4W	C624	1-162-318-11	CERAMIC	0.001MF 10% 500V
R619	1-217-201-11	WIREWOUND	1.2 10% 2W F	C625	1-123-607-00	ELECT	0.1MF 20% 50V
R620	1-217-190-21	WIREWOUND	0.15 10% 2W F	C628	1-102-973-00	CERAMIC	100PF 5% 50V
R621	1-249-419-11	CARBON	1.5K 5% 1/4W	C631	1-101-810-00	CERAMIC	100PF 5% 500V
R622	1-247-699-11	CARBON	82 5% 1/4W	C675	1-136-165-00	FILM	0.1MF 5% 50V
R629	1-215-473-00	METAL	150K 1% 1/6W	C683	1-101-006-00	CERAMIC	0.047MF 50V
R632	1-247-753-11	CARBON	1.2K 5% 1/2W F	<u>DIODE</u>			
R635	1-215-457-00	METAL	33K 1% 1/6W	D617	8-719-911-19	DIODE 1SS119	
R636	1-214-779-00	METAL	120K 1% 1/4W	D619	8-719-924-06	DIODE ERC24-06S	
R637	1-216-443-11	METAL OXIDE	56K 5% 1W F	<u>IC</u>			
R642	1-217-348-11	WIREWOUND	180 10% 7W F	IC601	8-759-100-75	IC UPC1394C	
R643	1-217-348-11	WIREWOUND	180 10% 7W F	<u>TRANSISTOR</u>			
R644	1-202-719-00	SOLID	1M 10% 1/2W	Q615	8-729-178-54	TRANSISTOR 2SC2785	
R645	1-202-720-00	SOLID	1.2M 10% 1/2W	Q617	8-729-178-54	TRANSISTOR 2SC2785	
R646	1-215-879-51	METAL OXIDE	47K 5% 1W F	<u>RESISTOR</u>			
R647	1-249-425-11	CARBON	4.7K 5% 1/4W	R624	1-249-429-11	CARBON	10K 5% 1/4W
R648	1-249-421-11	CARBON	2.2K 5% 1/4W	R625	1-247-887-00	CARBON	220K 5% 1/4W
R650	1-249-409-11	CARBON	220 5% 1/4W	R626	1-249-438-11	CARBON	56K 5% 1/4W
R651	1-249-436-11	CARBON	39K 5% 1/4W	R627	1-249-438-11	CARBON	56K 5% 1/4W
R652	1-215-900-11	METAL OXIDE	22K 5% 2W F	R628	1-249-411-11	CARBON	330 5% 1/4W
R653	1-249-442-11	CARBON	510 5% 1/4W	R630	1-214-747-00	METAL	5.6K 1% 1/4W
R654	1-246-523-00	CARBON	120K 5% 1/4W	R631	1-249-424-11	CARBON	3.9K 5% 1/4W
R655	1-214-777-00	METAL	100K 1% 1/4W	R633	1-249-441-11	CARBON	100K 5% 1/4W
R656	1-247-895-00	CARBON	470K 5% 1/4W	R634	1-249-417-11	CARBON	1K 5% 1/4W
R657	1-247-881-00	CARBON	120K 5% 1/4W	R638	1-215-457-00	METAL	33K 1% 1/6W
R658	1-249-409-11	CARBON	220 5% 1/4W	R639	1-249-434-11	CARBON	27K 5% 1/4W
R659	1-215-425-00	METAL	1.5K 1% 1/6W	R640	1-247-723-11	CARBON	6.8K 5% 1/4W
R661	1-216-430-11	METAL OXIDE	390 5% 1W F	R641	1-249-429-11	CARBON	10K 5% 1/4W
R662	1-216-488-11	METAL OXIDE	18K 5% 3W F	R649	1-247-891-00	CARBON	330K 5% 1/4W
R663	1-249-425-11	CARBON	4.7K 5% 1/4W	R679	1-249-441-11	CARBON	100K 5% 1/4W
R665	1-216-346-00	METAL OXIDE	0.56 5% 1W F				
R666	1-249-393-11	CARBON	10 5% 1/4W F				
R667	1-249-401-11	CARBON	47 5% 1/4W F				
R672	1-249-401-11	CARBON	47 5% 1/4W F				
R673 Δ	1-249-381-91	CARBON	1 5% 1/4W F				
R674	1-217-323-00	WIREWOUND	1 10% 7W F				
R675	1-249-393-11	CARBON	10 5% 1/4W F				
R676	1-259-034-91	CARBON	1.2 5% 1/4W				
R677	1-249-429-11	CARBON	10K 5% 1/4W				
R678	1-249-429-11	CARBON	10K 5% 1/4W				
R679	1-249-441-11	CARBON	100K 5% 1/4W				
R680	1-249-417-11	CARBON	1K 5% 1/4W				

The components identified by shading and mark Δ are critical for safety.
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FC QA

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
<u>THERMISTOR</u>				<u>RESISTOR</u>			
TH611A	1-800-954-11	THERMISTOR S-3K		R1700	1-247-104-00	CARBON 75 5% 1/4W	
*****				R1701	1-249-417-11	CARBON 1K 5% 1/4W	
*A-1270-212-A QA BOARD, COMPLETE				R1702	1-249-439-11	CARBON 68K 5% 1/4W	
*****				R1703	1-249-417-11	CARBON 1K 5% 1/4W	
1-537-075-11		TERMINAL BOARD, INPUT/OUTPUT		R1704	1-249-439-11	CARBON 68K 5% 1/4W	
1-537-076-11		TERMINAL BOARD, INPUT/OUTPUT		R1705	1-247-104-00	CARBON 75 5% 1/4W	
<u>CAPACITOR</u>				R1706	1-249-417-11	CARBON 1K 5% 1/4W	
C1700	1-124-236-00	ELECT 47MF 20% 16V		R1707	1-249-439-11	CARBON 68K 5% 1/4W	
C1701	1-124-247-00	ELECT 10MF 20% 25V		R1708	1-249-417-11	CARBON 1K 5% 1/4W	
C1702	1-124-247-00	ELECT 10MF 20% 25V		R1709	1-249-439-11	CARBON 68K 5% 1/4W	
C1703	1-124-236-00	ELECT 47MF 20% 16V		R1710	1-247-104-00	CARBON 75 5% 1/4W	
C1704	1-124-247-00	ELECT 10MF 20% 25V		R1711	1-249-414-11	CARBON 560 5% 1/4W	
C1705	1-124-247-00	ELECT 10MF 20% 25V		R1712	1-249-426-11	CARBON 5.6K 5% 1/4W	
C1706	1-123-611-00	ELECT 1MF 20% 50V		R1713	1-249-414-11	CARBON 560 5% 1/4W	
C1707	1-123-611-00	ELECT 1MF 20% 50V		R1714	1-249-426-11	CARBON 5.6K 5% 1/4W	
C1708	1-124-236-00	ELECT 47MF 20% 16V		R1715	1-247-104-00	CARBON 75 5% 1/4W	
C1709	1-124-247-00	ELECT 10MF 20% 25V		R1716	1-249-417-11	CARBON 1K 5% 1/4W	
C1710	1-102-965-00	CERAMIC 39PF 5% 50V		R1717	1-215-491-00	CARBON 820K 5% 1/4W	
C1712	1-102-965-00	CERAMIC 39PF 5% 50V		R1718	1-247-708-11	CARBON 470 5% 1/4W	
C1714	1-102-965-00	CERAMIC 39PF 5% 50V		R1719	1-249-408-11	CARBON 180 5% 1/4W	
C1715	1-124-247-00	ELECT 10MF 20% 25V		R1720	1-249-421-11	CARBON 2.2K 5% 1/4W	
C1716	1-124-247-00	ELECT 10MF 20% 25V		R1721	1-247-708-11	CARBON 470 5% 1/4W	
C1717	1-124-247-00	ELECT 10MF 20% 25V		R1722	1-249-408-11	CARBON 180 5% 1/4W	
C1718	1-124-247-00	ELECT 10MF 20% 25V		R1723	1-249-421-11	CARBON 2.2K 5% 1/4W	
C1719	1-124-236-00	ELECT 47MF 20% 16V		R1724	1-247-708-11	CARBON 470 5% 1/4W	
C1720	1-124-236-00	ELECT 47MF 20% 16V		R1725	1-249-408-11	CARBON 180 5% 1/4W	
C1721	1-124-236-00	ELECT 47MF 20% 16V		R1726	1-247-895-00	CARBON 470K 5% 1/4W	
C1722	1-124-236-00	ELECT 47MF 20% 16V		R1727	1-247-713-11	CARBON 1K 5% 1/4W	
C1723	1-124-247-00	ELECT 10MF 20% 25V		R1728	1-215-491-00	CARBON 820K 5% 1/4W	
C1728	1-102-973-00	CERAMIC 100PF 5% 50V		R1729	1-247-710-11	CARBON 560 5% 1/4W	
C1729	1-102-973-00	CERAMIC 100PF 5% 50V		R1730	1-247-895-00	CARBON 470K 5% 1/4W	
C1731	1-102-973-00	CERAMIC 100PF 5% 50V		R1731	1-247-713-11	CARBON 1K 5% 1/4W	
C1732	1-102-973-00	CERAMIC 100PF 5% 50V		R1732	1-215-491-00	CARBON 820K 5% 1/4W	
C1738	1-102-973-00	CERAMIC 100PF 5% 50V		R1733	1-247-104-00	CARBON 75 5% 1/4W	
C1743	1-102-973-00	CERAMIC 100PF 5% 50V		R1735	1-247-104-00	CARBON 75 5% 1/4W	
C1744	1-102-973-00	CERAMIC 100PF 5% 50V		R1736	1-247-104-00	CARBON 75 5% 1/4W	
C1747	1-102-965-00	CERAMIC 39PF 5% 50V		R1737	1-247-104-00	CARBON 75 5% 1/4W	
C1748	1-102-965-00	CERAMIC 39PF 5% 50V		R1738	1-249-409-11	CARBON 220 5% 1/4W	
C1749	1-102-965-00	CERAMIC 39PF 5% 50V		R1739	1-247-104-00	CARBON 75 5% 1/4W	
C1750	1-102-965-00	CERAMIC 39PF 5% 50V		R1740	1-249-429-11	CARBON 10K 5% 1/4W	
C1752	1-161-047-00	CERAMIC 0.0047MF 10% 50V		R1742	1-249-412-11	CARBON 390 5% 1/4W	
C1753	1-102-965-00	CERAMIC 39PF 5% 50V		R1743	1-247-713-11	CARBON 1K 5% 1/4W	
<u>DIODE</u>				R1744	1-215-491-00	CARBON 820K 5% 1/4W	
D1703	8-719-110-38	DIODE RD6.2E-B2		R1745	1-249-429-11	CARBON 10K 5% 1/4W	
D1706	8-719-110-38	DIODE RD6.2E-B2		R1746	1-249-406-11	CARBON 120 5% 1/4W	
D1707	8-719-110-38	DIODE RD6.2E-B2		R1750	1-249-417-11	CARBON 1K 5% 1/4W	
D1708	8-719-110-38	DIODE RD6.2E-B2		R1751	1-247-104-00	CARBON 75 5% 1/4W	
D1709	8-719-110-38	DIODE RD6.2E-B2		R1752	1-249-401-11	CARBON 47 5% 1/4W	
D1710	8-719-110-38	DIODE RD6.2E-B2		R1753	1-249-401-11	CARBON 47 5% 1/4W	
D1711	8-719-110-38	DIODE RD6.2E-B2		R1754	1-249-401-11	CARBON 47 5% 1/4W	
<u>JACK</u>				R1755	1-249-418-11	CARBON 1.2K 5% 1/4W	
J25	1-561-534-41	SOCKET 21P		R1756	1-249-418-11	CARBON 1.2K 5% 1/4W	
<u>CONNECTOR</u>				R1760	1-215-483-00	CARBON 390K 5% 1/4W	
QA1	*1-566-055-11	PIN, CONNECTOR 3P		R1761	1-215-483-00	CARBON 390K 5% 1/4W	
QA2	*1-560-278-00	PLUG, CONNECTOR 3P		R1762	1-215-483-00	CARBON 390K 5% 1/4W	
				R1763	1-215-483-00	CARBON 390K 5% 1/4W	
				R1768	1-249-406-11	CARBON 120 5% 1/4W	
				R1769	1-247-710-11	CARBON 560 5% 1/4W	
				<u>SWITCH</u>			
				SW1	1-570-145-11	SWITCH, SLIDE	

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
SW2	1-570-145-11	SWITCH, SLIDE		D1781	8-719-911-19	DIODE 1SS119	
SW3	1-570-145-11	SWITCH, SLIDE		D1782	8-719-911-19	DIODE 1SS119	
SW4	1-570-145-11	SWITCH, SLIDE		D1783	8-719-931-06	DIODE EQB01-06	
SW5	1-570-145-11	SWITCH, SLIDE		D1784	8-719-110-14	DIODE RD9.1ES-83	
				D1787	8-719-109-90	DIODE RD5.6ES-83	

*A-1270-213-A	QB BOARD, COMPLETE *****			D1788	8-719-815-55	DIODE 1S1555	
				D1789	8-719-911-19	DIODE 1SS119	
				D1791	8-719-911-19	DIODE 1SS119	
*1-566-054-11	PIN, CONNECTOR 2P			D1792	8-719-911-19	DIODE 1SS119	
				IC			
CAPACITOR				IC1770	8-759-800-65	IC LA7910	
C1777	1-102-074-00	CERAMIC	0.001MF 10% 50V	IC1771	8-759-140-66	IC UPD4066BC	
C1778	1-102-074-00	CERAMIC	0.001MF 10% 50V	IC1772	8-759-102-37	IC UPD4052BC	
C1779	1-126-103-11	ELECT	470MF 20% 16V	IC1773	8-759-102-37	IC UPD4052BC	
C1781	1-101-004-00	CERAMIC	0.01MF 50V	IC1774	8-759-900-86	IC SN74LS86N	
C1782	1-126-101-11	ELECT	100MF 20% 16V				
C1788	1-124-247-00	ELECT	10MF 20% 25V	IC1775	8-759-901-38	IC SN74LS138N	
C1789	1-124-247-00	ELECT	10MF 20% 25V	IC1776	8-759-900-09	IC SN74LS09N	
C1790	1-124-236-00	ELECT	47MF 20% 16V	COIL			
C1791	1-124-236-00	ELECT	47MF 20% 16V	L1770	1-408-239-00	INDUCTOR 4.7MMH	
C1792	1-102-959-00	CERAMIC	22PF 5% 50V	TRANSISTOR			
C1793	1-101-004-00	CERAMIC	0.01MF 50V	Q1773	8-729-204-83	TRANSISTOR 2SA1048-GR	
C1794	1-124-236-00	ELECT	47MF 20% 16V	Q1774	8-729-178-54	TRANSISTOR 2SC2785	
C1795	1-101-004-00	CERAMIC	0.01MF 50V	Q1775	8-729-117-54	TRANSISTOR 2SA1175	
C1799	1-124-471-00	ELECT	1000MF 20% 6.3V	Q1776	8-729-178-54	TRANSISTOR 2SC2785	
C1800	1-124-236-00	ELECT	47MF 20% 16V	Q1777	8-729-178-54	TRANSISTOR 2SC2785	
C1801	1-126-103-11	ELECT	470MF 20% 16V	Q1778	8-729-178-54	TRANSISTOR 2SC2785	
C1802	1-102-971-00	CERAMIC	82PF 5% 50V	Q1779	8-729-117-54	TRANSISTOR 2SA1175	
C1803	1-124-471-00	ELECT	1000MF 20% 6.3V	Q1780	8-729-204-83	TRANSISTOR 2SA1048-GR	
C1804	1-102-971-00	CERAMIC	82PF 5% 50V	Q1781	8-729-178-54	TRANSISTOR 2SC2785	
C1806	1-101-361-00	CERAMIC	150PF 5% 50V	Q1784	8-729-900-89	TRANSISTOR DTC144ES	
C1807	1-102-111-00	CERAMIC	270PF 10% 50V	Q1785	8-729-178-54	TRANSISTOR 2SC2785	
C1808	1-101-004-00	CERAMIC	0.01MF 50V	Q1786	8-729-178-54	TRANSISTOR 2SC2785	
C1810	1-124-236-00	ELECT	47MF 20% 16V	Q1787	8-729-177-43	TRANSISTOR 2SD774-4	
C1811	1-124-236-00	ELECT	47MF 20% 16V	Q1788	8-729-117-54	TRANSISTOR 2SA1175	
C1813	1-124-236-00	ELECT	47MF 20% 16V	Q1789	8-729-178-54	TRANSISTOR 2SC2785	
C1820	1-124-236-00	ELECT	47MF 20% 16V	Q1790	8-729-177-43	TRANSISTOR 2SD774-4	
C1821	1-101-004-00	CERAMIC	0.01MF 50V	Q1791	8-729-900-36	TRANSISTOR DTC124ES	
C1823	1-136-165-00	FILM	0.1MF 5% 50V	Q1792	8-729-178-54	TRANSISTOR 2SC2785	
C1824	1-136-165-00	FILM	0.1MF 5% 50V	Q1793	8-729-117-54	TRANSISTOR 2SA1175	
C1825	1-136-165-00	FILM	0.1MF 5% 50V	Q1794	8-729-178-54	TRANSISTOR 2SC2785	
C1827	1-101-880-00	CERAMIC	47PF 5% 50V	Q1795	8-729-178-54	TRANSISTOR 2SC2785	
C1828	1-123-611-00	ELECT	1MF 20% 50V	Q1796	8-729-178-54	TRANSISTOR 2SC2785	
C1830	1-124-236-00	ELECT	47MF 20% 16V	Q1797	8-729-178-54	TRANSISTOR 2SC2785	
C1831	1-101-004-00	CERAMIC	0.01MF 50V	Q1798	8-729-204-83	TRANSISTOR 2SA1048-GR	
C1832	1-124-236-00	ELECT	47MF 20% 16V	Q1799	8-729-178-54	TRANSISTOR 2SC2785	
C1833	1-101-004-00	CERAMIC	0.01MF 50V	Q1802	8-729-900-36	TRANSISTOR DTC124ES	
C1834	1-101-004-00	CERAMIC	0.01MF 50V	Q1803	8-729-178-54	TRANSISTOR 2SC2785	
C1835	1-124-236-00	ELECT	47MF 20% 16V	Q1804	8-729-178-54	TRANSISTOR 2SC2785	
C1837	1-124-963-11	ELECT	33MF 20% 16V	Q1805	8-729-178-54	TRANSISTOR 2SC2785	
C1838	1-101-880-00	CERAMIC	47PF 5% 50V	Q1806	8-729-178-54	TRANSISTOR 2SC2785	
C1839	1-124-236-00	ELECT	47MF 20% 16V	Q1807	8-729-178-54	TRANSISTOR 2SC2785	
C1840	1-101-004-00	CERAMIC	0.01MF 50V	Q1808	8-729-178-54	TRANSISTOR 2SC2785	
C1841	1-124-462-00	ELECT	10MF 20% 16V	Q1809	8-729-178-54	TRANSISTOR 2SC2785	
DIODE				Q1810	8-729-178-54	TRANSISTOR 2SC2785	
D1770	8-719-911-19	DIODE 1SS119		Q1811	8-729-178-54	TRANSISTOR 2SC2785	
D1771	8-719-911-19	DIODE 1SS119		Q1812	8-729-178-54	TRANSISTOR 2SC2785	
D1772	8-719-911-19	DIODE 1SS119		Q1813	8-729-178-54	TRANSISTOR 2SC2785	
D1773	8-719-911-19	DIODE 1SS119		Q1814	8-729-178-54	TRANSISTOR 2SC2785	
D1774	8-719-911-19	DIODE 1SS119		Q1815	8-729-178-54	TRANSISTOR 2SC2785	
D1775	8-719-911-19	DIODE 1SS119		Q1816	8-729-178-54	TRANSISTOR 2SC2785	
D1776	8-719-911-19	DIODE 1SS119		Q1817	8-729-178-54	TRANSISTOR 2SC2785	
D1777	8-719-911-19	DIODE 1SS119		Q1818	8-729-900-36	TRANSISTOR DTC124ES	
D1780	8-719-911-19	DIODE 1SS119					

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
Q1819	8-729-900-36	TRANSISTOR DTC124ES		R1822	1-249-406-11	CARBON 120 5% 1/4W	
Q1820	8-729-900-36	TRANSISTOR DTC124ES		R1823	1-249-406-11	CARBON 120 5% 1/4W	
Q1822	8-729-178-54	TRANSISTOR 2SC2785		R1824	1-247-881-00	CARBON 120K 5% 1/4W	
Q1823	8-729-178-54	TRANSISTOR 2SC2785		R1825	1-247-881-00	CARBON 120K 5% 1/4W	
Q1825	8-729-178-54	TRANSISTOR 2SC2785		R1826	1-247-881-00	CARBON 120K 5% 1/4W	
Q1826	8-729-178-54	TRANSISTOR 2SC2785		R1827	1-249-429-11	CARBON 10K 5% 1/4W	
Q1827	8-729-178-54	TRANSISTOR 2SC2785		R1828	1-249-417-11	CARBON 1K 5% 1/4W	
Q1828	8-729-178-54	TRANSISTOR 2SC2785		R1829	1-249-429-11	CARBON 10K 5% 1/4W	
Q1829	8-729-178-54	TRANSISTOR 2SC2785		R1830	1-249-429-11	CARBON 10K 5% 1/4W	
Q1830	8-729-177-43	TRANSISTOR 2SD774-4		R1831	1-249-417-11	CARBON 1K 5% 1/4W	
Q1831	8-729-900-36	TRANSISTOR DTC124ES		R1832	1-249-429-11	CARBON 10K 5% 1/4W	
Q1832	8-729-178-54	TRANSISTOR 2SC2785		R1833	1-249-429-11	CARBON 10K 5% 1/4W	
Q1891	8-729-900-36	TRANSISTOR DTC124ES		R1834	1-249-417-11	CARBON 1K 5% 1/4W	
Q1893	8-729-178-54	TRANSISTOR 2SC2785		R1835	1-249-428-11	CARBON 8.2K 5% 1/4W	
				R1836	1-249-422-11	CARBON 2.7K 5% 1/4W	
CONNECTOR				R1837	1-249-417-11	CARBON 1K 5% 1/4W	
QB11	*1-566-058-11	PIN, CONNECTOR 6P		R1838	1-249-426-11	CARBON 5.6K 5% 1/4W	
QB12	*1-566-056-11	PIN, CONNECTOR 4P		R1839	1-249-426-11	CARBON 5.6K 5% 1/4W	
QB13	*1-566-056-11	PIN, CONNECTOR 4P		R1841	1-249-433-11	CARBON 22K 5% 1/4W	
QB14	*1-566-054-11	PIN, CONNECTOR 2P		R1842	1-249-433-11	CARBON 22K 5% 1/4W	
QB15	*1-566-057-11	PIN, CONNECTOR 5P		R1843	1-249-462-11	CARBON 22K 5% 1/4W	
QB16	*1-566-056-11	PIN, CONNECTOR 4P		R1844	1-249-405-11	CARBON 100 5% 1/4W	
QB17	*1-566-059-11	PIN, CONNECTOR 7P		R1845	1-249-433-11	CARBON 22K 5% 1/4W	
				R1846	1-247-714-11	CARBON 1.2K 5% 1/4W	
				R1847	1-249-437-11	CARBON 47K 5% 1/4W	
RESISTOR				R1848	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1771	1-249-469-11	CARBON 100K 5% 1/4W		R1849	1-249-437-11	CARBON 47K 5% 1/4W	
R1776	1-249-405-11	CARBON 100 5% 1/4W		R1850	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1777	1-249-405-11	CARBON 100 5% 1/4W		R1851	1-249-465-11	CARBON 47K 5% 1/4W	
R1778	1-249-405-11	CARBON 100 5% 1/4W		R1852	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1779	1-249-441-11	CARBON 100K 5% 1/4W		R1853	1-249-416-11	CARBON 820 5% 1/4W	
R1780	1-249-433-11	CARBON 22K 5% 1/4W		R1854	1-249-416-11	CARBON 820 5% 1/4W	
R1781	1-249-441-11	CARBON 100K 5% 1/4W		R1855	1-249-417-11	CARBON 1K 5% 1/4W	
R1782	1-249-425-11	CARBON 4.7K 5% 1/4W		R1856	1-249-417-11	CARBON 1K 5% 1/4W	
R1783	1-249-469-11	CARBON 100K 5% 1/4W		R1857	1-247-713-11	CARBON 1K 5% 1/4W	
R1784	1-249-433-11	CARBON 22K 5% 1/4W		R1858	1-249-433-11	CARBON 22K 5% 1/4W	
R1785	1-249-441-11	CARBON 100K 5% 1/4W		R1859	1-249-417-11	CARBON 1K 5% 1/4W	
R1786	1-249-441-11	CARBON 100K 5% 1/4W		R1860	1-249-429-11	CARBON 10K 5% 1/4W	
R1787	1-249-433-11	CARBON 22K 5% 1/4W		R1861	1-249-417-11	CARBON 1K 5% 1/4W	
R1788	1-249-413-11	CARBON 470 5% 1/4W		R1862	1-249-417-11	CARBON 1K 5% 1/4W	
R1789	1-249-401-11	CARBON 47 5% 1/4W		R1863	1-249-433-11	CARBON 22K 5% 1/4W	
R1794	1-247-895-00	CARBON 470K 5% 1/4W		R1864	1-249-417-11	CARBON 1K 5% 1/4W	
R1795	1-249-422-11	CARBON 2.7K 5% 1/4W		R1865	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1796	1-249-440-11	CARBON 82K 5% 1/4W		R1866	1-249-412-11	CARBON 390 5% 1/4W	
R1797	1-249-434-11	CARBON 27K 5% 1/4W		R1867	1-249-417-11	CARBON 1K 5% 1/4W	
R1798	1-249-425-11	CARBON 4.7K 5% 1/4W		R1868	1-249-412-11	CARBON 390 5% 1/4W	
R1799	1-249-419-11	CARBON 1.5K 5% 1/4W		R1869	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1800	1-249-425-11	CARBON 4.7K 5% 1/4W		R1870	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1801	1-249-440-11	CARBON 82K 5% 1/4W		R1871	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1802	1-249-434-11	CARBON 27K 5% 1/4W		R1872	1-249-433-11	CARBON 22K 5% 1/4W	
R1804	1-249-429-11	CARBON 10K 5% 1/4W		R1873	1-249-429-11	CARBON 10K 5% 1/4W	
R1805	1-249-429-11	CARBON 10K 5% 1/4W		R1874	1-249-413-11	CARBON 470 5% 1/4W	
R1806	1-249-406-11	CARBON 120 5% 1/4W		R1875	1-215-432-00	CARBON 3K 5% 1/4W	
R1807	1-249-426-11	CARBON 5.6K 5% 1/4W		R1876	1-249-420-11	CARBON 1.8K 5% 1/4W	
R1808	1-249-426-11	CARBON 5.6K 5% 1/4W		R1877	1-249-429-11	CARBON 10K 5% 1/4W	
R1809	1-249-408-11	CARBON 180 5% 1/4W		R1879	1-249-469-11	CARBON 100K 5% 1/4W	
R1810	1-215-422-00	CARBON 1.1K 5% 1/4W		R1880	1-249-417-11	CARBON 1K 5% 1/4W	
R1811	1-249-413-11	CARBON 470 5% 1/4W		R1881	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1813	1-249-413-11	CARBON 470 5% 1/4W		R1882	1-249-417-11	CARBON 1K 5% 1/4W	
R1814	1-249-413-11	CARBON 470 5% 1/4W		R1883	1-249-433-11	CARBON 22K 5% 1/4W	
R1815	1-249-412-11	CARBON 390 5% 1/4W		R1884	1-249-417-11	CARBON 1K 5% 1/4W	
R1816	1-249-413-11	CARBON 470 5% 1/4W		R1885	1-249-416-11	CARBON 820 5% 1/4W	
R1817	1-215-422-00	CARBON 1.1K 5% 1/4W		R1886	1-249-417-11	CARBON 1K 5% 1/4W	
R1819	1-249-413-11	CARBON 470 5% 1/4W		R1887	1-247-715-11	CARBON 1.5K 5% 1/4W	
R1820	1-249-406-11	CARBON 120 5% 1/4W		R1888	1-249-417-11	CARBON 1K 5% 1/4W	
R1821	1-249-406-11	CARBON 120 5% 1/4W					

QB C

Ref.No	Part No.	Description	Remark
R1892	1-249-415-11	CARBON 680 5% 1/4W	
R1893	1-249-433-11	CARBON 22K 5% 1/4W	
R1894	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1896	1-249-415-11	CARBON 680 5% 1/4W	
R1898	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1899	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1901	1-249-429-11	CARBON 10K 5% 1/4W	
R1902	1-249-417-11	CARBON 1K 5% 1/4W	
R1903	1-249-412-11	CARBON 390 5% 1/4W	
R1920	1-249-429-11	CARBON 10K 5% 1/4W	
R1921	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1922	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1923	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1925	1-249-440-11	CARBON 82K 5% 1/4W	
R1926	1-249-440-11	CARBON 82K 5% 1/4W	
R1927	1-249-440-11	CARBON 82K 5% 1/4W	
R1928	1-249-405-11	CARBON 100 5% 1/4W	
R1929	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1930	1-247-714-11	CARBON 1.2K 5% 1/4W	
R1931	1-249-417-11	CARBON 1K 5% 1/4W	
R1932	1-249-417-11	CARBON 1K 5% 1/4W	
R1935	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1936	1-249-430-11	CARBON 12K 5% 1/4W	
R1937	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1938	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1939	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1940	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1941	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1942	1-247-695-11	CARBON 39 5% 1/4W	
R1945	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1950	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1951	1-249-429-11	CARBON 10K 5% 1/4W	
R1952	1-215-865-11	METAL OXIDE 220 5% 1W	F
R1953	1-249-423-11	CARBON 3.3K 5% 1/4W	
R1955	1-249-435-11	CARBON 33K 5% 1/4W	
R1956	1-249-434-11	CARBON 27K 5% 1/4W	
R1965	1-247-712-11	CARBON 820 5% 1/4W	
R1966	1-247-712-11	CARBON 820 5% 1/4W	
R1967	1-247-712-11	CARBON 820 5% 1/4W	
R1968	1-247-881-00	CARBON 120K 5% 1/4W	
R1969	1-249-440-11	CARBON 82K 5% 1/4W	
R1971	1-249-417-11	CARBON 1K 5% 1/4W	
R1972	1-249-417-11	CARBON 1K 5% 1/4W	
R1973	1-249-417-11	CARBON 1K 5% 1/4W	
R1974	1-247-713-11	CARBON 1K 5% 1/4W	
R1976	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1977	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1978	1-249-433-11	CARBON 22K 5% 1/4W	
R1979	1-249-439-11	CARBON 68K 5% 1/4W	

*A-1330-789-A C BOARD, COMPLETE

1-526-644-71 SOCKET, CRT
4-812-554-00 WASHER

CONNECTOR

C1	*1-506-371-00	2P PLUG (L)
C2	*1-566-054-11	PIN, CONNECTOR 2P
C3	*1-566-055-11	PIN, CONNECTOR 3P
C5	*1-566-061-11	PIN, CONNECTOR 9P
C6	*1-566-054-11	PIN, CONNECTOR 2P
C7	*1-508-768-00	6P PLUG

Ref.No	Part No.	Description	Remark
<u>CAPACITOR</u>			
C701	1-162-115-00	CERAMIC 330PF 10% 2KV	
C702	1-129-779-00	FILM 0.022MF 20% 1KV	
C703	1-123-383-00	ELECT 4.7MF 20% 100V	
C704	1-123-948-00	ELECT 22MF 20% 250V	
C705	1-106-387-00	MYLAR 0.1MF 10% 200V	
C706	1-106-387-00	MYLAR 0.1MF 10% 200V	
C707	1-102-116-00	CERAMIC 680PF 10% 50V	
C708	1-102-116-00	CERAMIC 680PF 10% 50V	
C709	1-102-116-00	CERAMIC 680PF 10% 50V	
C710	1-102-115-00	CERAMIC 560PF 10% 50V	
C711	1-123-356-00	ELECT 10MF 20% 25V	
C712	1-102-116-00	CERAMIC 680PF 10% 50V	
C713	1-102-116-00	CERAMIC 680PF 10% 50V	
C714	1-123-321-00	ELECT 220MF 20% 16V	
C715	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C718	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C723	1-108-634-81	MYLAR 0.047MF 10% 100V	
C753	1-102-971-00	CERAMIC 82PF 5% 50V	
C754	1-108-617-91	MYLAR 0.0018MF 10% 100V	
C755	1-123-356-00	ELECT 10MF 20% 25V	
C756	1-106-367-00	MYLAR 0.01MF 10% 100V	
C757	1-106-367-00	MYLAR 0.01MF 10% 100V	
C758	1-102-963-00	CERAMIC 33PF 5% 50V	
C759	1-102-963-00	CERAMIC 33PF 5% 50V	
C760	1-108-614-91	MYLAR 0.001MF 10% 100V	
C762	1-136-177-00	FILM 1MF 5% 50V	
C763	1-123-356-00	ELECT 10MF 20% 50V	
C764	1-106-220-00	MYLAR 0.1MF 10% 100V	
C765	1-123-380-00	ELECT 1MF 20% 50V	
C766	1-124-122-11	ELECT 100MF 20% 50V	
<u>DIODE</u>			
D701	8-719-911-19	DIODE 1SS119	
D702	8-719-911-19	DIODE 1SS119	
D703	8-719-911-19	DIODE 1SS119	
D704	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D707	8-719-911-19	DIODE 1SS119	
D708	8-719-911-19	DIODE 1SS119	
D709	8-719-911-19	DIODE 1SS119	
D710	8-719-901-83	DIODE 1SS83	
D711	8-719-901-83	DIODE 1SS83	
D712	8-719-901-83	DIODE 1SS83	
D713	8-719-901-83	DIODE 1SS83	
D751	8-719-911-19	DIODE 1SS119	
D752	8-719-911-19	DIODE 1SS119	
<u>COIL</u>			
L701	1-408-092-00	INDUCTOR 330UH	
L702	1-407-708-00	INDUCTOR 180UH	
L703	1-407-708-00	INDUCTOR 180UH	
L704	1-407-697-00	INDUCTOR 22UH	
L705	1-407-697-00	INDUCTOR 22UH	
L706	1-407-709-00	INDUCTOR 220UH	
L707	1-407-697-00	INDUCTOR 22UH	
L721	1-408-413-00	INDUCTOR 22UH	
L751	1-408-399-00	INDUCTOR 1.5UH	
<u>TRANSISTOR</u>			
Q701	8-729-326-11	TRANSISTOR 2SC2611	
Q702	8-729-178-54	TRANSISTOR 2SC2785	
Q703	8-729-200-17	TRANSISTOR 2SA1091	
Q704	8-729-326-11	TRANSISTOR 2SC2611	
Q705	8-729-178-54	TRANSISTOR 2SC2785	

C D2

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
Q706	8-729-200-17	TRANSISTOR 2SA1091		R752	1-249-409-11	CARBON 220 5% 1/4W	
Q707	8-729-200-17	TRANSISTOR 2SA1091		R753	1-249-418-11	CARBON 1.2K 5% 1/4W	
Q708	8-729-326-11	TRANSISTOR 2SC2611		R754	1-249-412-11	CARBON 390 5% 1/4W	
Q709	8-729-178-54	TRANSISTOR 2SC2785		R755	1-215-871-11	METAL OXIDE 2.2K 5% 1W F	
Q710	8-729-255-12	TRANSISTOR 2SC2551		R756	1-249-414-11	CARBON 560 5% 1/4W	
Q712	8-729-255-12	TRANSISTOR 2SC2551		R757	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q714	8-729-200-17	TRANSISTOR 2SA1091		R758	1-249-435-11	CARBON 33K 5% 1/4W	
Q715	8-729-200-17	TRANSISTOR 2SA1091		R759	1-249-393-11	CARBON 10 5% 1/4W F	
Q716	8-729-200-17	TRANSISTOR 2SA1091		R760	1-249-411-11	CARBON 330 5% 1/4W	
Q751	8-729-178-54	TRANSISTOR 2SC2785		R761	1-249-409-11	CARBON 220 5% 1/4W	
Q752	8-729-178-54	TRANSISTOR 2SC2785		R762	1-249-409-11	CARBON 220 5% 1/4W	
Q753	8-729-178-54	TRANSISTOR 2SC2785		R763	1-249-437-11	CARBON 47K 5% 1/4W	
Q754	8-729-177-43	TRANSISTOR 2SD774		R764	1-249-397-11	CARBON 22 5% 1/4W F	
Q755	8-729-178-54	TRANSISTOR 2SC2785		R765	1-249-417-11	CARBON 1K 5% 1/4W	
Q756	8-729-374-02	TRANSISTOR 2SB740		R766	1-249-435-11	CARBON 33K 5% 1/4W	
Q757	8-729-177-43	TRANSISTOR 2SD774		R767	1-249-441-11	CARBON 100K 5% 1/4W	
RESISTOR				R768	1-249-435-11	CARBON 33K 5% 1/4W	
R701	1-212-352-00	METAL OXIDE 0.22 5% 1W F		R769	1-249-417-11	CARBON 1K 5% 1/4W	
R702	1-202-846-00	SOLID 470K 10% 1/2W		R770	1-249-389-11	CARBON 4.7 5% 1/4W F	
R703	1-202-844-00	SOLID 330K 10% 1/2W		R771	1-249-389-11	CARBON 4.7 5% 1/4W F	
R704	1-202-815-11	SOLID 47K 10% 1/2W		R772	1-249-402-11	CARBON 56 5% 1/4W	
R705	1-202-846-00	SOLID 470K 10% 1/2W		VARIABLE RESISTOR			
R706	1-202-720-00	SOLID 1.2M 10% 1/2W		RV701	1-226-157-00	RES, ADJ, METAL GLAZE 1M	
R707	1-202-842-11	SOLID 220K 10% 1/2W		RV703	1-228-729-00	RES, ADJ, CERAMIC CARBON 220K	
R708	1-202-818-00	SOLID 1K 10% 1/2W		RV705	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K	
R709	1-202-818-00	SOLID 1K 10% 1/2W		RV706	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
R710	1-202-818-00	SOLID 1K 10% 1/2W		*****			
R711	1-202-549-00	SOLID 100 10% 1/2W		*A-1340-940-A D2 BOARD, COMPLETE			
R712	1-202-543-00	SOLID 56 10% 1/2W		*****			
R713	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		CAPACITOR			
R714	1-249-409-11	CARBON 220 5% 1/4W		C2501	1-108-618-91	MYLAR 0.0022MF 10% 100V	
R715	1-249-429-11	CARBON 10K 5% 1/4W		C2502	1-108-632-81	MYLAR 0.033MF 10% 100V	
R716	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		C2503	1-108-620-91	MYLAR 0.0033MF 10% 100V	
R717	1-249-409-11	CARBON 220 5% 1/4W		C2504	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R718	1-249-429-11	CARBON 10K 5% 1/4W		C2505	1-106-367-00	MYLAR 0.01MF 10% 100V	
R719	1-249-429-11	CARBON 10K 5% 1/4W		C2506	1-108-620-91	MYLAR 0.0033MF 10% 100V	
R720	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		C2507	1-106-367-00	MYLAR 0.01MF 10% 100V	
R721	1-249-409-11	CARBON 220 5% 1/4W		C2508	1-123-379-00	ELECT 0.47MF 20% 50V	
R722	1-249-405-11	CARBON 100 5% 1/4W		C2509	1-123-356-00	ELECT 10MF 20% 50V	
R723	1-247-700-11	CARBON 100 5% 1/4W		C2510	1-123-356-00	ELECT 10MF 20% 50V	
R724	1-249-405-11	CARBON 100 5% 1/4W		C2511	1-123-359-00	ELECT 47MF 20% 50V	
R725	1-249-429-11	CARBON 10K 5% 1/4W		C2512	1-123-359-00	ELECT 47MF 20% 50V	
R726	1-249-408-11	CARBON 180 5% 1/4W		C2513	1-123-357-00	ELECT 22MF 20% 50V	
R727	1-249-429-11	CARBON 10K 5% 1/4W		C2514	1-123-361-00	ELECT 220MF 20% 50V	
R728	1-215-402-00	CARBON 160 5% 1/4W		C2515	1-123-333-00	ELECT 100MF 20% 25V	
R729	1-249-441-11	CARBON 100K 5% 1/4W		C2516	1-123-360-00	ELECT 100MF 20% 50V	
R730	1-215-402-00	CARBON 160 5% 1/4W		C2517	1-129-701-00	FILM 0.01MF 5% 100V	
R731	1-247-719-11	CARBON 3.3K 5% 1/4W F		C2518	1-102-231-11	CERAMIC 47PF 10% 500V	
R732	1-247-719-11	CARBON 3.3K 5% 1/4W F		C2520	1-123-380-00	ELECT 1MF 20% 50V	
R733	1-247-719-11	CARBON 3.3K 5% 1/4W F		C2521	1-130-495-00	MYLAR 0.1MF 10% 50V	
R734	1-247-714-11	CARBON 1.2K 5% 1/4W		C2522	1-123-332-00	ELECT 47MF 20% 25V	
R735	1-247-714-11	CARBON 1.2K 5% 1/4W		C2523	1-108-637-00	MYLAR 0.082MF 10% 100V	
R736	1-246-476-00	CARBON 1.3K 5% 1/4W		C2524	1-106-222-00	MYLAR 0.12MF 10% 100V	
R737	1-249-439-11	CARBON 68K 5% 1/4W		C2525	1-123-379-00	ELECT 0.47MF 20% 50V	
R739	1-247-881-00	CARBON 120K 5% 1/4W		C2526	1-108-634-81	MYLAR 0.047MF 10% 100V	
R740	1-215-902-11	METAL OXIDE 47K 5% 2W F		C2527	1-108-614-91	MYLAR 0.001MF 10% 100V	
R741	1-249-435-11	CARBON 33K 5% 1/4W		C2530	1-106-224-00	MYLAR 0.15MF 10% 100V	
R742	1-247-725-11	CARBON 10K 5% 1/4W F		C2532	1-106-367-00	MYLAR 0.01MF 10% 100V	
R743	1-247-725-11	CARBON 10K 5% 1/4W F		C2535	1-108-630-91	MYLAR 0.022MF 10% 100V	
R744	1-247-725-11	CARBON 10K 5% 1/4W F		C2536	1-123-379-00	ELECT 0.47MF 20% 50V	
R745	1-247-713-11	CARBON 1K 5% 1/4W F		C2537	1-123-332-00	ELECT 47MF 20% 25V	
R746	1-215-879-51	METAL OXIDE 47K 5% 1W F		C2538	1-123-369-00	ELECT 4.7MF 20% 50V	
R747	1-247-725-11	CARBON 10K 5% 1/4W F					
R751	1-249-409-11	CARBON 220 5% 1/4W					

D2 D3

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
<u>CONNECTOR</u>							
D21	*1-566-058-11	PIN, CONNECTOR 6P		R2525	1-249-417-11	CARBON 1K 5% 1/4W	
D22	*1-508-767-00	5P PLUG		R2526	1-249-423-11	CARBON 3.3K 5% 1/4W	
D23	*1-508-766-00	4P PLUG (M)		R2527	1-249-433-11	CARBON 22K 5% 1/4W	
D24	*1-508-765-00	3P PLUG (M)		R2528	1-249-425-11	CARBON 4.7K 5% 1/4W	
D25	*1-508-784-00	1P PLUG		R2529	1-249-433-11	CARBON 22K 5% 1/4W	
D26	*1-566-054-11	PIN, CONNECTOR 2P		R2530	1-249-423-11	CARBON 3.3K 5% 1/4W	
<u>DIODE</u>				R2531	1-249-401-11	CARBON 47 5% 1/4W	F
D2501	8-719-911-19	DIODE 1SS119		R2532	1-249-401-11	CARBON 47 5% 1/4W	F
D2502	8-719-911-55	DIODE U05G		R2533	1-249-399-11	CARBON 33 5% 1/4W	F
D2503	8-719-911-55	DIODE U05G		R2534	1-249-429-11	CARBON 10K 5% 1/4W	
D2504	8-719-911-19	DIODE 1SS119		R2540	1-249-434-11	CARBON 27K 5% 1/4W	
D2505	8-719-911-19	DIODE 1SS119		R2541	1-247-883-00	CARBON 150K 5% 1/4W	
D2506	8-719-911-55	DIODE U05G		R2542	1-216-426-11	METAL OXIDE 82 5% 1W	F
D2507	8-719-110-51	DIODE RD20ES-B		R2543	1-212-960-00	FUSIBLE 12 5% 1/2W	F
<u>COIL</u>				R2544	1-215-884-11	METAL OXIDE 47 5% 2W	F
L2501	1-407-877-00	INDUCTOR 15MMH		R2545	1-249-421-11	CARBON 2.2K 5% 1/4W	
L2502	1-459-119-00	COIL, DUST CORE (ARC)		R2546	1-247-706-11	CARBON 330 5% 1/4W	
L2503	1-407-504-00	INDUCTOR 10MMH		R2547	1-249-435-11	CARBON 33K 5% 1/4W	
L2504	1-459-583-11	COIL (WITH CORE)		R2548	1-249-439-11	CARBON 68K 5% 1/4W	
L2505	1-443-012-00	TRANSFORMER, DYNAMIC CONVERSION		R2549	1-249-441-11	CARBON 100K 5% 1/4W	
L2506	1-459-123-00	COIL, DUST CORE (PAC)		R2550	1-249-424-11	CARBON 3.9K 5% 1/4W	
<u>TRANSISTOR</u>				R2554	1-247-895-00	CARBON 470K 5% 1/4W	
Q2501	8-729-178-54	TRANSISTOR 2SC2785		R2555	1-249-424-11	CARBON 3.9K 5% 1/4W	
Q2502	8-729-178-54	TRANSISTOR 2SC2785		R2556	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q2503	8-729-178-54	TRANSISTOR 2SC2785		R2557	1-249-429-11	CARBON 10K 5% 1/4W	
Q2504	8-729-178-54	TRANSISTOR 2SC2785		R2558	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q2505	8-729-178-54	TRANSISTOR 2SC2785		R2559	1-249-429-11	CARBON 10K 5% 1/4W	
Q2506	8-729-122-02	TRANSISTOR 2SA1220A		R2560	1-249-430-11	CARBON 12K 5% 1/4W	
Q2507	8-729-169-02	TRANSISTOR 2SC2690A		R2561	1-249-429-11	CARBON 10K 5% 1/4W	
Q2510	8-729-195-82	TRANSISTOR 2SC2958		R2562	1-247-704-11	CARBON 220 5% 1/4W	
Q2511	8-729-117-54	TRANSISTOR 2SA1175		R2563	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q2512	8-729-122-02	TRANSISTOR 2SA1220A		R2564	1-249-437-11	CARBON 47K 5% 1/4W	
Q2515	8-729-117-54	TRANSISTOR 2SA1175		R2565	1-249-441-11	CARBON 100K 5% 1/4W	
Q2516	8-729-178-54	TRANSISTOR 2SC2785		R2566	1-249-409-11	CARBON 220 5% 1/4W	
<u>RESISTOR</u>				R2567	1-249-421-11	CARBON 2.2K 5% 1/4W	
R2501	1-249-435-11	CARBON 33K 5% 1/4W		<u>VARIABLE RESISTOR</u>			
R2502	1-249-429-11	CARBON 10K 5% 1/4W		RV2501	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
R2503	1-249-435-11	CARBON 33K 5% 1/4W		RV2502	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
R2504	1-249-429-11	CARBON 10K 5% 1/4W		RV2503	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
R2505	1-249-420-11	CARBON 1.8K 5% 1/4W		RV2504	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
R2506	1-249-429-11	CARBON 10K 5% 1/4W		RV2505	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
R2507	1-249-437-11	CARBON 47K 5% 1/4W		<u>TRANSFORMER</u>			
R2508	1-249-437-11	CARBON 47K 5% 1/4W		T2501	1-407-849-00	TRANSFORMER, D.F	
R2509	1-249-418-11	CARBON 1.2K 5% 1/4W		*****			
R2510	1-249-438-11	CARBON 56K 5% 1/4W		*A-1340-941-A	D3 BOARD, COMPLETE		
R2511	1-249-439-11	CARBON 68K 5% 1/4W		*****			
R2512	1-249-429-11	CARBON 10K 5% 1/4W		*1-566-057-11	PIN, CONNECTOR 5P		
R2513	1-249-417-11	CARBON 1K 5% 1/4W		*1-566-058-11	PIN, CONNECTOR 6P		
R2514	1-247-700-11	CARBON 100 5% 1/4W		<u>CAPACITOR</u>			
R2515	1-249-439-11	CARBON 68K 5% 1/4W		C2601	1-124-598-11	ELECT 22MF 20% 25V	
R2516	1-249-425-11	CARBON 4.7K 5% 1/4W		C2602	1-123-381-00	ELECT 2.2MF 20% 50V	
R2517	1-249-439-11	CARBON 68K 5% 1/4W		C2603	1-123-381-00	ELECT 2.2MF 20% 50V	
R2518	1-249-439-11	CARBON 68K 5% 1/4W		C2604	1-123-369-00	ELECT 4.7MF 20% 50V	
R2519	1-249-437-11	CARBON 47K 5% 1/4W		C2606	1-101-004-00	CERAMIC 0.01MF 50V	
R2520	1-249-421-11	CARBON 2.2K 5% 1/4W		C2607	1-123-333-00	ELECT 100MF 20% 25V	
R2521	1-249-439-11	CARBON 68K 5% 1/4W		C2608	1-123-381-00	ELECT 2.2MF 20% 50V	
R2522	1-249-430-11	CARBON 12K 5% 1/4W		C2609	1-124-598-11	ELECT 22MF 20% 25V	
R2523	1-249-423-11	CARBON 3.3K 5% 1/4W		C2610	1-124-259-00	ELECT 4.7MF 20% 50V	
R2524	1-249-426-11	CARBON 5.6K 5% 1/4W		C2611	1-124-261-00	ELECT 10MF 20% 50V	
				C2612	1-124-259-00	ELECT 4.7MF 20% 50V	
				C2613	1-124-259-00	ELECT 4.7MF 20% 50V	

D3

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
C2615	1-101-004-00	CERAMIC 0.01MF	50V	RV2602	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K	
<u>DIODE</u>				RV2603	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
D2601	8-719-000-12	DIODE MC931		RV2604	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
D2602	8-719-000-12	DIODE MC931		RV2605	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K	
D2603	8-719-110-60	DIODE RD24ES-B		RV2606	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
D2604	8-719-911-19	DIODE 1SS119		*****			
<u>IC</u>				*A-1345-756-A D BOARD, COMPLETE			
IC2601	8-759-700-08	IC NJM4558S		*****			
IC2602	8-759-909-70	IC CX23025		<u>CAPACITOR</u>			
<u>TRANSISTOR</u>				C501	1-123-380-00	ELECT 1MF 20% 50V	
Q2601	8-729-178-54	TRANSISTOR 2SC2785		C502	1-108-622-91	MYLAR 0.0047MF 10% 100V	
Q2602	8-729-900-36	TRANSISTOR DTC124ES		C503	1-108-618-91	MYLAR 0.0022MF 10% 100V	
Q2603	8-729-178-54	TRANSISTOR 2SC2785		C504	1-123-323-00	ELECT 470MF 20% 16V	
Q2604	8-729-178-54	TRANSISTOR 2SC2785		C505	1-123-379-00	ELECT 0.47MF 20% 50V	
Q2605	8-729-178-54	TRANSISTOR 2SC2785		C506	1-123-318-00	ELECT 33MF 20% 16V	
Q2606	8-729-178-54	TRANSISTOR 2SC2785		C507	1-123-379-00	ELECT 0.47MF 20% 50V	
Q2607	8-729-105-72	TRANSISTOR 2SK523-L1		C508	1-136-173-00	FILM 0.47MF 5% 50V	
<u>RESISTOR</u>				C509	1-123-357-00	ELECT 22MF 20% 50V	
R2601	1-249-438-11	CARBON 56K 5% 1/4W		C510	1-124-516-00	ELECT 330MF 20% 50V	
R2602	1-249-435-11	CARBON 33K 5% 1/4W		C512	1-136-162-00	FILM 0.056MF 5% 50V	
R2603	1-249-424-11	CARBON 3.9K 5% 1/4W		C514	1-124-609-11	ELECT 470MF 10% 50V	
R2604	1-249-424-11	CARBON 3.9K 5% 1/4W		C515	1-124-625-11	ELECT 22MF 10% 50V	
R2605	1-247-704-11	CARBON 220 5% 1/4W		C516	1-123-336-00	ELECT 470MF 20% 25V	
R2609	1-249-441-11	CARBON 100K 5% 1/4W		C518	1-106-387-00	MYLAR 0.068MF 10% 200V	
R2610	1-249-441-11	CARBON 100K 5% 1/4W		C520	1-102-244-00	CERAMIC 220PF 10% 500V	
R2611	1-247-725-11	CARBON 10K 5% 1/4W		C521	1-123-364-00	ELECT 1000MF 20% 50V	
R2612	1-249-438-11	CARBON 56K 5% 1/4W		C522	1-123-875-11	ELECT 10MF 20% 50V	
R2613	1-247-881-00	CARBON 120K 5% 1/4W		C523	1-106-387-00	MYLAR 0.1MF 10% 200V	
R2614	1-249-429-11	CARBON 10K 5% 1/4W		C524	1-106-381-12	MYLAR 0.039MF 10% 200V	
R2615	1-249-429-11	CARBON 10K 5% 1/4W		C525	1-102-244-00	CERAMIC 220PF 10% 500V	
R2616	1-249-429-11	CARBON 10K 5% 1/4W		C526	1-124-342-00	ELECT 3.3MF 20% 160V	
R2617	1-249-429-11	CARBON 10K 5% 1/4W		C527	1-108-694-81	MYLAR 0.015MF 10% 200V	
R2618	1-249-429-11	CARBON 10K 5% 1/4W		C528	1-162-318-11	CERAMIC 0.001MF 10% 500V	
R2619	1-249-441-11	CARBON 100K 5% 1/4W		C531	1-123-379-00	ELECT 0.47MF 20% 50V	
R2620	1-249-441-11	CARBON 100K 5% 1/4W		C545	1-123-330-00	ELECT 22MF 20% 25V	
R2622	1-249-429-11	CARBON 10K 5% 1/4W		C546	1-123-381-00	ELECT 2.2MF 20% 50V	
R2623	1-249-429-11	CARBON 10K 5% 1/4W		C547	1-123-333-00	ELECT 100MF 20% 25V	
R2624	1-249-417-11	CARBON 1K 5% 1/4W		C548	1-123-321-00	ELECT 220MF 20% 16V	
R2625	1-249-429-11	CARBON 10K 5% 1/4W		C551	1-123-357-00	ELECT 22MF 20% 50V	
R2626	1-249-433-11	CARBON 22K 5% 1/4W		C552	1-123-356-00	ELECT 10MF 20% 50V	
R2627	1-249-433-11	CARBON 22K 5% 1/4W		C555	1-123-379-00	ELECT 0.47MF 20% 50V	
R2628	1-249-429-11	CARBON 10K 5% 1/4W		C556	1-136-175-00	FILM 0.68MF 5% 50V	
R2629	1-249-405-11	CARBON 100 5% 1/4W		C557	1-136-169-00	FILM 0.22MF 5% 50V	
R2630	1-249-405-11	CARBON 100 5% 1/4W		C1501	1-136-161-00	FILM 0.047MF 5% 50V	
R2631	1-247-700-11	CARBON 100 5% 1/4W		C1502	1-106-220-00	MYLAR 0.1MF 10% 100V	
R2632	1-249-423-11	CARBON 3.3K 5% 1/4W		C1503	1-106-371-00	MYLAR 0.015MF 10% 100V	
R2633	1-249-423-11	CARBON 3.3K 5% 1/4W		C1504	1-123-330-00	ELECT 22MF 20% 16V	
R2634	1-247-700-11	CARBON 100 5% 1/4W		C1505	1-106-367-00	MYLAR 0.01MF 10% 100V	
R2635	1-247-722-11	CARBON 5.6K 5% 1/4W		C1506	1-123-356-00	ELECT 10MF 20% 25V	
R2636	1-249-427-11	CARBON 6.8K 5% 1/4W		C1507	1-123-332-00	ELECT 47MF 20% 25V	
R2637	1-249-433-11	CARBON 22K 5% 1/4W		C1508	1-130-868-00	FILM 0.0056MF 5% 50V	
R2638	1-249-431-11	CARBON 15K 5% 1/4W		C1509	1-123-369-00	ELECT 4.7MF 20% 25V	
R2639	1-249-437-11	CARBON 47K 5% 1/4W		C1510	1-102-820-00	CERAMIC 330PF 5% 50V	
R2640	1-249-429-11	CARBON 10K 5% 1/4W		C1511	1-123-321-00	ELECT 220MF 20% 16V	
R2642	1-249-424-11	CARBON 3.9K 5% 1/4W		C1512	1-123-379-00	ELECT 0.47MF 20% 50V	
R2643	1-249-423-11	CARBON 3.3K 5% 1/4W		C1520	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
R2644	1-247-885-00	CARBON 180K 5% 1/4W		C1521	1-108-631-81	MYLAR 0.027MF 10% 100V	
R2645	1-249-429-11	CARBON 10K 5% 1/4W		C1522	1-123-333-00	ELECT 100MF 20% 25V	
<u>VARIABLE RESISTOR</u>				C1523	1-102-978-00	CERAMIC 220PF 5% 50V	
RV2601	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K		C1524	1-106-379-12	MYLAR 0.033MF 10% 200V	
				C1525	1-162-117-00	CERAMIC 100PF 10% 500V	
				C1526	1-102-157-00	CERAMIC 560PF 10% 500V	
				C1527	1-102-038-00	CERAMIC 0.001MF 99% 500V	
				C1528	1-106-379-12	MYLAR 0.033MF 10% 200V	

D

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
C1529	1-102-820-00	CERAMIC	330PF 5% 50V	D6	*1-508-767-00	5P PLUG	
C1530	1-123-361-00	ELECT	220MF 20% 50V	D7	*1-566-056-11	PIN, CONNECTOR 4P	
C1531	1-125-294-00	ELECT(BLOCK)	560MF 20% 160V	D8	*1-508-765-00	3P PLUG (M)	
C1532	1-124-006-11	ELECT	10MF 20% 25V	D9	*1-508-765-00	3P PLUG (M)	
C1533A	1-162-115-51	CERAMIC	330PF 10% 2KV	D10	*1-508-768-00	6P PLUG	
C1534A	1-136-330-11	FILM	0.014MF 3% 1.6KV	D11	*1-508-768-00	6P PLUG	
C1535	1-129-953-00	FILM	0.068MF 20% 1.5KV	D12	*1-566-055-11	PIN, CONNECTOR 3P	
C1536	1-123-333-00	ELECT	100MF 20% 16V	D13	*1-506-108-41	PIN, TERMINAL SV	
C1537	1-123-333-00	ELECT	100MF 20% 16V	D15	*1-566-058-11	PIN, CONNECTOR 6P	
C1539A	1-162-116-11	CERAMIC	680PF 10% 2KV	D27	*1-566-058-11	PIN, CONNECTOR 6P	
C1540	1-162-115-00	CERAMIC	330PF 10% 2KV	D28	1-566-057-11	PIN, CONNECTOR 5P	
C1541	1-108-630-91	MYLAR	0.022MF 10% 100V	DIODE			
C1542	1-136-179-00	FILM	1.5MF 5% 200V	D501	8-719-815-55	DIODE 1S1555	
C1543	1-102-820-00	CERAMIC	330PF 5% 50V	D502	8-719-200-02	DIODE 10E2	
C1544	1-136-328-11	FILM	1MF 5% 400V	D503	8-719-300-76	DIODE RH-1A	
C1549	1-106-367-00	MYLAR	0.01MF 10% 100V	D504	8-719-300-76	DIODE RH-1A	
C1550	1-102-973-00	CERAMIC	100PF 5% 50V	D506	8-719-200-02	DIODE 10E2	
C1551	1-102-030-00	CERAMIC	330PF 10% 500V	D508	8-719-110-34	DIODE RD13ES-B	
C1552	1-106-367-00	MYLAR	0.01MF 10% 100V	D509	8-719-911-55	DIODE U05G	
C1553	1-123-379-00	ELECT	0.47MF 20% 50V	D510	8-719-109-88	DIODE RD5.6ES-B1	
C1554	1-106-367-00	MYLAR	0.01MF 10% 100V	D511	8-719-815-55	DIODE 1S1555	
C1555	1-102-110-00	CERAMIC	220PF 10% 50V	D513	8-719-110-38	DIODE RD15ES-B	
C1556	1-123-333-00	ELECT	100MF 20% 25V	D520	8-719-190-00	DIODE RD24E-BZ7	
C1557	1-108-622-91	MYLAR	0.0047MF 10% 100V	D521	8-719-815-55	DIODE 1S1555	
C1558	1-123-330-00	ELECT	22MF 20% 16V	D522	8-719-101-61	DIODE RD6.2E-L2	
C1559	1-123-379-00	ELECT	0.47MF 20% 50V	D1502	8-719-815-55	DIODE 1S1555	
C1560	1-123-379-00	ELECT	0.47MF 20% 50V	D1503	8-719-110-38	DIODE RD15ES-B	
C1565	1-106-220-00	MYLAR	0.1MF 10% 100V	D1508	8-719-815-55	DIODE 1S1555	
C1566A	1-162-115-51	CERAMIC	330PF 10% 2KV	D1509	8-719-200-02	DIODE 10E2	
C1567A	1-162-115-51	CERAMIC	330PF 10% 2KV	D1510	8-719-300-76	DIODE RH-1A	
C1568A	1-130-706-11	FILM	0.008MF 3% 1.6KV	D1511	8-719-300-76	DIODE RH-1A	
C1569A	1-129-747-11	FILM	0.047MF 10% 400V	D1512	8-719-300-76	DIODE RH-1A	
C1570	1-129-751-00	FILM	0.1MF 20% 400V	D1513	8-719-901-19	DIODE V11N	
C1571	1-102-030-00	CERAMIC	330PF 10% 500V	D1515	8-719-200-02	DIODE 10E2	
C1572	1-123-321-00	ELECT	220MF 20% 16V	D1516	8-719-903-09	DIODE V30N	
C1576	1-123-332-00	ELECT	47MF 20% 25V	D1517A	8-719-906-15	DIODE ERC26-15S	
C1577	1-123-318-00	ELECT	33MF 20% 16V	D1517B	8-719-906-15	DIODE ERC26-15S	
C1578	1-108-630-91	MYLAR	0.022MF 10% 100V	D1518A	8-719-302-98	DIODE RG4C	
C1579	1-106-220-00	MYLAR	0.1MF 10% 100V	D1518B	8-719-302-98	DIODE RG4C	
C1584	1-124-499-11	ELECT	1MF 20% 50V	D1525	8-719-815-55	DIODE 1S1555	
C1585	1-123-357-00	ELECT	22MF 20% 50V	D1527	8-719-300-76	DIODE RH-1A	
C1586	1-108-621-91	MYLAR	0.0039MF 10% 100V	D1528	8-719-926-16	DIODE ERC26-15SA	
C1587	1-131-351-00	TANTALUM	4.7MF 10% 35V	D1529	8-719-300-76	DIODE RH-1A	
C1591	1-124-005-11	ELECT	4.7MF 20% 50V	D1530	8-719-300-76	DIODE RH-1A	
C1592	1-106-367-00	MYLAR	0.01MF 10% 200V	D1531	8-719-300-38	DIODE GU-3A	
C1593	1-136-171-00	FILM	0.33MF 5% 50V	D1535	8-719-110-60	DIODE RD24ES-B	
C1595	1-123-381-00	ELECT	2.2MF 20% 50V	D1536	8-719-102-65	DIODE RD4.7E-N2	
C1596	1-123-369-00	ELECT	4.7MF 20% 50V	D1537	8-719-102-74	DIODE RD6.2E-N2	
C1597	1-136-175-00	FILM	0.68MF 5% 50V	D1538	8-719-815-55	DIODE 1S1555	
C1598	1-102-816-00	CERAMIC	120PF 5% 50V	D1540	8-719-102-71	DIODE RD5.6E-N2	
C1599	1-106-367-00	MYLAR	0.01MF 10% 100V	D1541	8-719-300-76	DIODE RH-1A	
C1601	1-106-367-00	MYLAR	0.01MF 10% 100V	IC			
C1602	1-106-367-00	MYLAR	0.01MF 10% 100V	IC501	8-759-178-12	IC UPC78L12	
C1603	1-106-367-00	MYLAR	0.01MF 10% 100V	IC503	8-759-178-12	IC UPC78L12	
C1604	1-106-367-00	MYLAR	0.01MF 10% 100V	IC1501	8-759-100-60	IC UPC1377C	
C1605	1-123-381-00	ELECT	2.2MF 20% 50V	IC1502	8-759-700-08	IC NJM4558S	
C1606	1-124-360-00	ELECT	1000MF 20% 16V	IC1503	8-759-700-08	IC NJM4558S	
C1607	1-136-162-00	FILM	0.056MF 5% 50V	COIL			
CONNECTOR				L501	1-459-060-00	COIL, DYNAMIC CONVERSION CHOKE	
D1	*1-508-766-00	4P PLUG (M)		L1501	1-407-364-00	COIL, SPOOK CHOKE 3.3UH	
D2	*1-566-055-11	PIN, CONNECTOR 3P		L1502	1-459-215-00	CORE COIL	
D3	*1-566-054-11	PIN, CONNECTOR 2P		L1503	1-407-365-00	COIL, CHOKE	
D4	*1-508-767-00	5P PLUG		L1504	1-407-365-00	COIL, CHOKE	
D5	1-506-348-XX	4P PLUG					

D

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
L1505	1-407-365-00	COIL, CHOKE		R511	1-249-432-11	CARBON 18K 5% 1/4W	
L1506	1-459-104-00	COIL, DUST CORE		R512	1-215-448-00	CARBON 13K 5% 1/4W	
L1507	1-407-365-00	COIL, CHOKE		R513	1-249-430-11	CARBON 12K 5% 1/4W	
L1508 Δ	1-424-059-11	PMC		R514	1-215-466-00	CARBON 75K 5% 1/4W	
L1510	1-407-365-00	COIL, CHOKE		R515	1-249-468-11	CARBON 82K 5% 1/4W	
L1511	1-407-365-00	COIL, CHOKE		R516	1-247-713-11	CARBON 1K 5% 1/4W	
L1512 Δ	1-459-308-32	COIL, HORIZONTAL LINEARITY		R517	1-249-420-11	CARBON 1.8K 5% 1/4W	
IC LINK				R518	1-247-721-11	CARBON 4.7K 5% 1/4W	
PS501	1-532-727-11	LINK, IC		R519	1-247-715-11	CARBON 1.5K 5% 1/4W	
TRANSISTOR				R520	1-249-429-11	CARBON 10K 5% 1/4W	
Q501	8-729-178-54	TRANSISTOR 2SC2785		R521	1-249-434-11	CARBON 27K 5% 1/4W	
Q502	8-729-178-54	TRANSISTOR 2SC2785		R522	1-249-438-11	CARBON 56K 5% 1/4W	
Q503	8-729-117-54	TRANSISTOR 2SA1175		R523	1-214-765-00	METAL 33K 1% 1/4W	
Q505	8-729-117-54	TRANSISTOR 2SA1175		R524	1-247-717-11	CARBON 2.2K 5% 1/4W	
Q506	8-729-178-54	TRANSISTOR 2SC2785		R525	1-216-353-00	METAL OXIDE 2.2 5% 1W	F
Q510	8-729-195-82	TRANSISTOR 2SC2958		R526	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q511	8-729-122-02	TRANSISTOR 2SA1220A		R527	1-249-420-11	CARBON 1.8K 5% 1/4W	
Q512	8-729-169-02	TRANSISTOR 2SC2690A		R528	1-249-413-11	CARBON 470 5% 1/4W	
Q515	8-729-117-54	TRANSISTOR 2SA1175		R529	1-249-414-11	CARBON 560 5% 1/4W	
Q516	8-729-177-43	TRANSISTOR 2SD774		R530	1-247-705-11	CARBON 270 5% 1/4W	
Q518	8-729-178-54	TRANSISTOR 2SC2785		R535	1-216-436-00	METAL OXIDE 3.9K 5% 1W	F
Q522	8-729-117-54	TRANSISTOR 2SA1175		R536	1-249-393-11	CARBON 10 5% 1/4W	F
Q523	8-729-117-54	TRANSISTOR 2SA1175		R537	1-249-399-11	CARBON 33 5% 1/4W	F
Q1501	8-729-117-54	TRANSISTOR 2SA1175		R538	1-215-869-11	METAL OXIDE 1K 5% 1W	F
Q1503	8-729-203-81	TRANSISTOR 2SC22388		R539	1-216-350-11	METAL OXIDE 1.2 5% 1W	F
Q1504	8-729-301-74	TRANSISTOR 2SD1497-04		R540	1-249-405-11	CARBON 100 5% 1/4W	F
	4-374-410-01	SPACER, MICA; Q1504		R541	1-216-350-11	METAL OXIDE 1.2 5% 1W	F
	*4-374-413-01	RETAINER (A), TR; Q1504		R542	1-215-865-11	METAL OXIDE 220 5% 1W	F
Q1505	8-729-177-43	TRANSISTOR 2SD774		R543	1-249-382-11	CARBON 1.2 5% 1/4W	F
Q1506	8-729-374-02	TRANSISTOR 2S8740		R544	1-215-869-11	METAL OXIDE 1K 5% 1W	F
Q1507	8-726-400-02	THYRISTOR SG-264A		R546	1-247-715-11	CARBON 1.5K 5% 1/4W	
	3-703-320-00	BUSHING (A), TRANSISTOR; Q1507		R551	1-216-432-00	METAL OXIDE 820 5% 1W	F
	*4-309-762-00	RETAINER (MD-17), TRANSISTOR; Q1507		R552	1-247-720-11	CARBON 3.9K 5% 1/4W	
	4-303-844-00	SPACER, MICA (4) MD-17; Q1507		R553	1-215-891-11	METAL OXIDE 680 5% 2W	F
Q1508	8-729-301-74	TRANSISTOR 2SD1497-04		R554	1-247-721-11	CARBON 4.7K 5% 1/4W	
	4-374-410-01	SPACER, MICA; Q1508		R557	1-247-725-11	CARBON 10K 5% 1/4W	
	*4-374-413-01	RETAINER (A), TR; Q1508		R558	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q1511	8-729-374-02	TRANSISTOR 2S8740		R560	1-249-417-11	CARBON 1K 5% 1/4W	
Q1512	8-729-117-54	TRANSISTOR 2SA1175		R561	1-247-708-11	CARBON 470 5% 1/4W	
Q1513	8-729-178-54	TRANSISTOR 2SC2785		R562	1-247-704-11	CARBON 220 5% 1/4W	
Q1514	8-729-178-54	TRANSISTOR 2SC2785		R563	1-247-704-11	CARBON 220 5% 1/4W	
Q1515	8-729-178-54	TRANSISTOR 2SC2785		R564	1-247-711-11	CARBON 680 5% 1/4W	
Q1520	8-729-168-82	TRANSISTOR 2SC2688		R581	1-249-427-11	CARBON 6.8K 5% 1/4W	
	4-377-115-01	SPACER, MICA; Q1520		R582	1-249-441-11	CARBON 100K 5% 1/4W	
	*4-381-170-01	HOLDER, TR; Q1520		R593	1-215-926-00	METAL OXIDE 33K 5% 3W	F
Q1521	8-729-900-36	TRANSISTOR DTC124ES		R593A	1-215-926-00	METAL OXIDE 33K 5% 3W	F
Q1522	8-729-900-36	TRANSISTOR DTC124ES		R594	1-249-460-11	CARBON 15K 5% 1/4W	
Q1523	8-729-900-36	TRANSISTOR DTC124ES		R595	1-249-431-11	CARBON 15K 5% 1/4W	
Q1524	8-729-900-36	TRANSISTOR DTC124ES		R596	1-246-488-00	CARBON 4.3K 5% 1/4W	
Q1525	8-729-900-36	TRANSISTOR DTC124ES		R597	1-249-461-11	CARBON 18K 5% 1/4W	
Q1526	8-729-900-36	TRANSISTOR DTC124ES		R598	1-214-750-00	METAL 7.5K 1% 1/4W	
RESISTOR				R599	1-214-741-00	METAL 3.3K 1% 1/4W	
R501	1-247-895-00	CARBON 470K 5% 1/4W		R1501	1-249-411-11	CARBON 330 5% 1/4W	
R502	1-249-427-11	CARBON 6.8K 5% 1/4W		R1502	1-247-723-11	CARBON 6.8K 5% 1/4W	
R503	1-249-425-11	CARBON 4.7K 5% 1/4W		R1503	1-249-405-11	CARBON 100 5% 1/4W	
R504	1-249-429-11	CARBON 10K 5% 1/4W		R1504	1-249-435-11	CARBON 33K 5% 1/4W	
R505	1-249-421-11	CARBON 2.2K 5% 1/4W		R1505	1-249-436-11	CARBON 39K 5% 1/4W	
R506	1-249-435-11	CARBON 33K 5% 1/4W		R1506	1-215-484-00	CARBON 430K 5% 1/4W	
R507	1-249-424-11	CARBON 3.9K 5% 1/4W		R1507	1-249-462-11	CARBON 22K 5% 1/4W	
R508	1-247-726-11	CARBON 33K 5% 1/4W		R1508	1-249-429-11	CARBON 10K 5% 1/4W	
R509	1-249-428-11	CARBON 8.2K 5% 1/4W		R1509	1-249-405-11	CARBON 100 5% 1/4W	
R510	1-249-431-11	CARBON 15K 5% 1/4W		R1510	1-249-433-11	CARBON 22K 5% 1/4W	
R1511	1-247-881-00	CARBON 120K 5% 1/4W		R1511	1-247-881-00	CARBON 120K 5% 1/4W	
R1512	1-249-440-11	CARBON 82K 5% 1/4W		R1512	1-249-440-11	CARBON 82K 5% 1/4W	
R1513	1-249-425-11	CARBON 4.7K 5% 1/4W		R1513	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1514	1-215-458-00	CARBON 36K 5% 1/4W		R1514	1-215-458-00	CARBON 36K 5% 1/4W	
R1516	1-249-430-11	CARBON 12K 5% 1/4W		R1516	1-249-430-11	CARBON 12K 5% 1/4W	

D **HD** **HC**

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
R1518	1-249-429-11	CARBON	10K 5% 1/4W	R1598	1-214-749-00	METAL	6.8K 1% 1/4W
R1520	1-249-435-11	CARBON	33K 5% 1/4W	R1599	1-247-883-00	CARBON	150K 5% 1/4W
R1521	1-247-701-11	CARBON	120 5% 1/4W	R1600	1-249-405-11	CARBON	100 5% 1/4W
R1525	1-247-723-11	CARBON	6.8K 5% 1/4W	R1601	1-246-531-00	CARBON	270K 5% 1/4W
R1530	1-247-700-11	CARBON	100 5% 1/4W	R1602	1-247-887-00	CARBON	220K 5% 1/4W
R1531	1-247-713-11	CARBON	1K 5% 1/4W F	R1603	1-247-725-11	CARBON	10K 5% 1/4W
R1532	1-215-922-11	METAL OXIDE	6.8K 5% 3W F	R1604	1-247-725-11	CARBON	10K 5% 1/4W
R1532A	1-215-922-11	METAL OXIDE	6.8K 5% 3W F	R1605	1-247-725-11	CARBON	10K 5% 1/4W
R1533	1-247-721-11	CARBON	4.7K 5% 1/4W	R1606	1-247-725-11	CARBON	10K 5% 1/4W
R1534	1-215-918-00	METAL OXIDE	1.5K 5% 3W F	R1607	1-247-725-11	CARBON	10K 5% 1/4W
R1534A	1-216-482-11	METAL OXIDE	1.8K 5% 3W F	R1608	1-249-469-11	CARBON	100K 5% 1/4W
R1535	1-216-389-11	METAL OXIDE	1 5% 3W F	R1609	1-249-433-11	CARBON	22K 5% 1/4W
R1536	1-247-697-11	CARBON	56 5% 1/4W	R1610	1-247-725-11	CARBON	10K 5% 1/4W
R1537	1-249-385-11	CARBON	2.2 5% 1/4W F	R1611	1-249-433-11	CARBON	22K 5% 1/4W
R1538	1-249-385-11	CARBON	2.2 5% 1/4W F	R1612	1-249-422-11	CARBON	2.7K 5% 1/4W
R1539	1-216-434-11	METAL OXIDE	1.8K 5% 1W F	R1613	1-249-451-11	CARBON	2.2 5% 1/4W F
R1541	1-215-915-11	METAL OXIDE	470 5% 3W F	R1614	1-247-700-11	CARBON	100 5% 1/4W
R1541A	1-216-479-11	METAL OXIDE	560 5% 3W F	R1617	1-249-469-11	CARBON	100K 5% 1/4W
R1542	1-215-880-00	METAL OXIDE	10 5% 2W F	VARIABLE RESISTOR			
R1543	1-215-869-11	METAL OXIDE	1K 5% 1W F	RV501	1-228-717-00	RES, ADJ, CERAMIC CARBON	220
R1544	1-216-448-11	METAL OXIDE	39 5% 2W F	RV503	1-228-727-00	RES, ADJ, CERAMIC CARBON	47K
R1545	1-247-693-11	CARBON	27 5% 1/4W	RV1501	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
R1546	1-216-371-00	METAL OXIDE	1.5 5% 2W F	RV1503	1-228-720-00	RES, ADJ, CERAMIC CARBON	1K
R1547	1-247-697-11	CARBON	56 5% 1/4W	RV1505	1-228-720-00	RES, ADJ, CERAMIC CARBON	1K
R1548	1-249-382-11	CARBON	1.2 5% 1/4W F	RV1506	1-228-727-00	RES, ADJ, CERAMIC CARBON	47K
R1549	1-249-382-11	CARBON	1.2 5% 1/4W F	RV1510	1-228-720-00	RES, ADJ, CERAMIC CARBON	1K
R1552	1-247-725-11	CARBON	10K 5% 1/4W	RV1511	1-228-729-00	RES, ADJ, CERAMIC CARBON	220K
R1553	1-249-425-11	CARBON	4.7K 5% 1/4W F	SPARK GAP			
R1554	1-247-705-11	CARBON	270 5% 1/4W	SG1501	1-519-063-XX	DISCHARGING GAP	
R1555	1-249-465-11	CARBON	47K 5% 1/4W	TRANSFORMER			
R1556	1-249-425-11	CARBON	4.7K 5% 1/4W	T1501A	1-437-089-11	TRANSFORMER, HORIZONTAL DRIVE	
R1557	1-249-429-11	CARBON	10K 5% 1/4W	T1502	1-437-089-00	TRANSFORMER, HORIZONTAL DRIVE	
R1558	1-249-425-11	CARBON	4.7K 5% 1/4W	T1503A	1-439-356-11	HOT	
R1559	1-249-417-11	CARBON	1K 5% 1/4W	T1513A	1-421-388-11	LOT	
R1560	1-215-452-00	CARBON	20K 5% 1/4W	THERMISTOR			
R1561	1-214-746-00	METAL	5.1K 1% 1/4W	TH501	1-800-070-XX	THERMISTOR TH-4700	
R1562	1-247-713-11	CARBON	1K 5% 1/4W	*****			
R1563	1-249-422-11	CARBON	2.7K 5% 1/4W	*1-624-847-11	HD BOARD		
R1564	1-249-405-11	CARBON	100 5% 1/4W F		*****		
R1565	1-249-462-11	CARBON	22K 5% 1/4W	SWITCH			
R1566	1-249-439-11	CARBON	68K 5% 1/4W	S996	1-570-145-11	SWITCH, SLIDE	
R1567	1-249-435-11	CARBON	33K 5% 1/4W	S997	1-570-145-11	SWITCH, SLIDE	
R1568	1-247-713-11	CARBON	1K 5% 1/4W	*****			
R1571	1-249-448-11	CARBON	1.2 5% 1/4W F	*A-1375-070-A	HC BOARD, COMPLETE		
R1572	1-249-448-11	CARBON	1.2 5% 1/4W F		*****		
R1573	1-249-382-11	CARBON	1.2 5% 1/4W F	CAPACITOR			
R1574	1-216-424-11	METAL OXIDE	39 5% 1W F	C982	1-130-023-00	FILM	0.0027MF 5% 50V
R1575	1-249-382-11	CARBON	1.2 5% 1/4W F	C983	1-130-734-00	FILM	0.0068MF 5% 50V
R1576	1-215-869-11	METAL OXIDE	1K 5% 1W F	C984	1-108-837-00	MYLAR	0.01MF 10% 50V
R1577	1-249-425-11	CARBON	4.7K 5% 1/4W	C985	1-124-462-00	ELECT	10MF 20% 16V
R1578	1-202-723-00	SOLID	2.2M 10% 1/2W	C986	1-123-356-00	ELECT	10MF 20% 25V
R1579	1-247-718-11	CARBON	2.7K 5% 1/4W				
R1580	1-249-439-11	CARBON	68K 5% 1/4W				
R1581	1-249-441-11	CARBON	100K 5% 1/4W				
R1582	1-249-429-11	CARBON	10K 5% 1/4W				
R1583	1-249-427-11	CARBON	6.8K 5% 1/4W				
R1584	1-249-421-11	CARBON	2.2K 5% 1/4W				
R1585	1-247-713-11	CARBON	1K 5% 1/4W				
R1586	1-246-529-00	CARBON	220K 5% 1/4W				
R1588	1-215-871-11	METAL OXIDE	2.2K 5% 1W F				
R1589	1-247-726-11	CARBON	33K 5% 1/4W				
R1590	1-247-726-11	CARBON	33K 5% 1/4W				
R1592	1-214-779-00	METAL	120K 1% 1/4W				
R1593	1-214-781-00	METAL	150K 1% 1/4W				
R1594	1-247-722-11	CARBON	5.6K 5% 1/4W				
R1595	1-214-777-00	METAL	100K 1% 1/4W				
R1597	1-214-755-00	METAL	12K 1% 1/4W				

HC K

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
<u>DIODE</u>				<u>DIODE</u>			
D971	8-719-109-85	DIODE RD5.1ES-B2		C229	1-123-379-00	ELECT 0.47MF 20% 50V	
<u>CONNECTOR</u>				C230	1-162-283-31	CERAMIC 120PF 10% 50V	
HC1	*1-566-057-11	PIN, CONNECTOR 5P		C231	1-162-283-31	CERAMIC 120PF 10% 50V	
HC2	*1-566-056-11	PIN, CONNECTOR 4P		C232	1-124-034-91	ELECT 33MF 20% 16V	
HC3	*1-566-054-11	PIN, CONNECTOR 2P		C233	1-124-477-11	ELECT 47MF 20% 16V	
HC4	*1-566-054-11	PIN, CONNECTOR 2P		<u>DIODE</u>			
<u>IC</u>				C235	1-130-495-00	MYLAR 0.1MF 10% 50V	
IC985	8-759-933-23	IC BA236		C236	1-124-471-00	ELECT 1000MF 20% 6.3V	
<u>RESISTOR</u>				C237	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R982	1-249-429-11	CARBON 10K 5% 1/4W		C238	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R983	1-249-417-11	CARBON 1K 5% 1/4W		C239	1-101-006-00	CERAMIC 0.047MF 50V	
R984	1-249-429-11	CARBON 10K 5% 1/4W		C240	1-101-006-00	CERAMIC 0.047MF 50V	
R985	1-249-417-11	CARBON 1K 5% 1/4W		C241	1-101-006-00	CERAMIC 0.047MF 50V	
R986	1-249-429-11	CARBON 10K 5% 1/4W		C242	1-125-296-00	ELECT(BLOCK) 4700MF 99% 35V	
R988	1-249-405-11	CARBON 100 5% 1/4W		C243	1-125-296-00	ELECT(BLOCK) 4700MF 99% 35V	
R989	1-249-417-11	CARBON 1K 5% 1/4W		C244	1-124-477-11	ELECT 47MF 20% 16V	
R990	1-249-432-11	CARBON 18K 5% 1/4W		C246	1-123-356-00	ELECT 10MF 20% 16V	
R991	1-249-408-11	CARBON 180 5% 1/4W		C251	1-123-356-00	ELECT 10MF 20% 25V	
R992	1-249-427-11	CARBON 6.8K 5% 1/4W		C252	1-123-875-11	ELECT 10MF 20% 50V	
R993	1-249-418-11	CARBON 1.2K 5% 1/4W		<u>DIODE</u>			
R994	1-249-420-11	CARBON 1.8K 5% 1/4W		D201	8-719-109-93	DIODE RD6.2ES-B2	
<u>VARIABLE RESISTOR</u>				D202	8-719-911-19	DIODE 1SS119	
RV982	1-237-349-11	RES, VAR, CARBON 10K		D203	8-719-110-36	DIODE RD13ES-B2	
RV983	1-237-712-11	RES, VAR, CARBON 10K		D204	8-719-110-36	DIODE RD13ES-B2	
RV984	1-237-712-11	RES, VAR, CARBON 10K		<u>IC</u>			
RV985	1-237-350-11	RES, VAR, CARBON 20K		IC201	8-759-276-30	IC TA7630P	
RV986	1-228-995-00	RES, ADJ, CARBON 22K		IC204	8-759-111-88	IC UPC1188H	
RV987	1-237-348-11	RES, VAR, CARBON 5K		IC205	8-759-111-88	IC UPC1188H	
*****				<u>CONNECTOR</u>			
*A-1380-192-A K BOARD, COMPLETE				K1	*1-566-057-11	PIN, CONNECTOR 5P	
*****				K2	*1-508-767-00	5P PLUG	
4-309-378-00 WASHER				K3	*1-566-056-11	PIN, CONNECTOR 4P	
<u>CAPACITOR</u>				K4	*1-566-054-11	PIN, CONNECTOR 2P	
C201	1-123-379-00	ELECT 0.47MF 20% 50V		K5	*1-508-765-00	3P PLUG (M)	
C202	1-123-379-00	ELECT 0.47MF 20% 50V		K7	*1-566-054-11	PIN, CONNECTOR 2P	
C203	1-124-477-11	ELECT 47MF 20% 16V		<u>COIL</u>			
C204	1-124-477-11	ELECT 47MF 20% 16V		L201	1-408-424-00	INDUCTOR 180UH	
C205	1-108-850-11	MYLAR 0.12MF 10% 50V		<u>TRANSISTOR</u>			
C206	1-102-125-00	CERAMIC 0.0047MF 10% 50V		Q201	8-729-178-54	TRANSISTOR 2SC2785	
C207	1-102-125-00	CERAMIC 0.0047MF 10% 50V		Q204	8-729-178-54	TRANSISTOR 2SC2785	
C208	1-108-850-11	MYLAR 0.12MF 10% 50V		Q205	8-729-178-54	TRANSISTOR 2SC2785	
C209	1-123-369-00	ELECT 4.7MF 20% 25V		Q206	8-729-117-54	TRANSISTOR 2SA1175	
C210	1-123-369-00	ELECT 4.7MF 20% 25V		Q209	8-729-117-54	TRANSISTOR 2SA1175	
C211	1-123-369-00	ELECT 4.7MF 20% 25V		Q211	8-729-177-43	TRANSISTOR 2SD774	
C212	1-123-369-00	ELECT 4.7MF 20% 25V		<u>RESISTOR</u>			
C213	1-124-120-11	ELECT 220MF 20% 16V		R201	1-249-441-11	CARBON 100K 5% 1/4W	
C218	1-124-360-00	ELECT 1000MF 20% 16V		R202	1-249-441-11	CARBON 100K 5% 1/4W	
C219	1-126-101-11	ELECT 100MF 20% 16V		R203	1-249-419-11	CARBON 1.5K 5% 1/4W	
C220	1-123-379-00	ELECT 0.47MF 20% 50V		R204	1-249-429-11	CARBON 10K 5% 1/4W	
C221	1-123-379-00	ELECT 0.47MF 20% 50V		R205	1-249-430-11	CARBON 12K 5% 1/4W	
C222	1-162-283-31	CERAMIC 120PF 10% 50V		R206	1-249-430-11	CARBON 12K 5% 1/4W	
C223	1-162-283-31	CERAMIC 120PF 10% 50V		R207	1-249-419-11	CARBON 1.5K 5% 1/4W	
C224	1-124-034-91	ELECT 33MF 20% 16V		R208	1-249-419-11	CARBON 1.5K 5% 1/4W	
C225	1-124-477-11	ELECT 47MF 20% 16V		R211	1-249-420-11	CARBON 1.8K 5% 1/4W	
C227	1-130-495-00	MYLAR 0.1MF 10% 50V		R221	1-249-403-11	CARBON 68 5% 1/4W F	
C228	1-123-379-00	ELECT 0.47MF 20% 50V		R222	1-249-429-11	CARBON 10K 5% 1/4W	
				R223	1-249-432-11	CARBON 18K 5% 1/4W	
				R224	1-249-437-11	CARBON 47K 5% 1/4W	
				R225	1-249-409-11	CARBON 220 5% 1/4W	
				R227	1-249-430-11	CARBON 12K 5% 1/4W	

K HA HB

Ref.No	Part No.	Description	Remark
R228	1-249-390-11	CARBON 5.6 5% 1/4W	F
R229	1-249-429-11	CARBON 10K 5% 1/4W	
R230	1-249-432-11	CARBON 18K 5% 1/4W	
R231	1-249-437-11	CARBON 47K 5% 1/4W	
R232	1-249-409-11	CARBON 220 5% 1/4W	
R234	1-249-430-11	CARBON 12K 5% 1/4W	F
R235	1-249-390-11	CARBON 5.6 5% 1/4W	
R236	1-249-429-11	CARBON 10K 5% 1/4W	
R237	1-249-429-11	CARBON 10K 5% 1/4W	
R238	1-249-423-11	CARBON 3.3K 5% 1/4W	
R239	1-249-437-11	CARBON 47K 5% 1/4W	
R240	1-249-430-11	CARBON 12K 5% 1/4W	
R241	1-249-441-11	CARBON 100K 5% 1/4W	
R242	1-249-429-11	CARBON 10K 5% 1/4W	
R243	1-249-417-11	CARBON 1K 5% 1/4W	
R244	1-249-417-11	CARBON 1K 5% 1/4W	
R245	1-249-417-11	CARBON 1K 5% 1/4W	
R246	1-249-417-11	CARBON 1K 5% 1/4W	
R252	1-249-419-11	CARBON 1.5K 5% 1/4W	
R257	1-249-423-11	CARBON 3.3K 5% 1/4W	
R280	1-249-449-11	CARBON 1.5 5% 1/4W	

*9-992-247-01 HA BOARD (KEY BOARD UNIT)
*****DIODE

D905	8-719-911-19	DIODE 1SS119
D906	8-719-911-19	DIODE 1SS119
D907	8-719-911-19	DIODE 1SS119
D908	8-719-911-19	DIODE 1SS119
D909	8-719-911-19	DIODE 1SS119
D910	8-719-911-19	DIODE 1SS119
D911	9-990-893-01	LED TLY263P
D912	9-990-893-01	LED TLY263P
D913	9-990-893-01	LED TLY263P
D914	9-990-893-01	LED TLY263P
D915	9-990-893-01	LED TLY263P
D916	9-990-893-01	LED TLY263P
D917	9-990-893-01	LED TLY263P
D918	9-990-893-01	LED TLY263P
D919	9-990-893-01	LED TLY263P
D920	9-990-893-01	LED TLY263P
D921	9-990-893-01	LED TLY263P
D922	9-990-893-01	LED TLY263P
D923	9-990-893-01	LED TLY263P
D924	9-990-893-01	LED TLY263P
D925	9-990-893-01	LED TLY263P
D926	9-990-893-01	LED TLY263P
D927	9-990-893-01	LED TLY263P
D928	9-990-893-01	LED TLY263P
D929	9-990-893-01	LED TLY263P
D930	9-990-893-01	LED TLY263P
D931	9-990-893-01	LED TLY263P

RESISTOR

R905	1-247-700-11	CARBON 100 5% 1/4W
R906	1-247-704-11	CARBON 220 5% 1/4W
R907	1-247-700-11	CARBON 100 5% 1/4W
R908	1-247-704-11	CARBON 220 5% 1/4W
R909	1-247-700-11	CARBON 100 5% 1/4W
R910	1-247-704-11	CARBON 220 5% 1/4W
R911	1-247-700-11	CARBON 100 5% 1/4W
R912	1-247-704-11	CARBON 220 5% 1/4W
R913	1-247-700-11	CARBON 100 5% 1/4W
R914	1-247-704-11	CARBON 220 5% 1/4W

Ref.No	Part No.	Description	Remark
R915	1-247-700-11	CARBON 100 5% 1/4W	
R916	1-247-704-11	CARBON 220 5% 1/4W	
R917	1-247-704-11	CARBON 220 5% 1/4W	
R918	1-247-704-11	CARBON 220 5% 1/4W	
R919	1-247-704-11	CARBON 220 5% 1/4W	

SWITCH

S905	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S906	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S907	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S908	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S909	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S910	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S911	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S912	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S913	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S914	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)
S915	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)

*9-990-897-01 HB BOARD (KEY BOARD UNIT)
*****DIODE

D940	8-719-911-19	DIODE 1SS119
D941	8-719-911-19	DIODE 1SS119
D942	8-719-911-19	DIODE 1SS119
D943	8-719-911-19	DIODE 1SS119
D944	8-719-911-19	DIODE 1SS119
D945	8-719-911-19	DIODE 1SS119
D946	8-719-911-19	DIODE 1SS119
D947	8-719-911-19	DIODE 1SS119
D948	9-990-901-01	LED TLS263P
D949	9-990-901-01	LED TLS263P
D950	9-990-893-01	LED TLY263P
D951	9-990-893-01	LED TLY263P
D952	9-990-893-01	LED TLY263P
D953	9-990-893-01	LED TLY263P
D954	9-990-893-01	LED TLY263P
D955	9-990-893-01	LED TLY263P
D956	9-990-893-01	LED TLY263P
D957	9-990-893-01	LED TLY263P
D958	9-990-893-01	LED TLY263P
D959	9-990-893-01	LED TLY263P
D960	9-990-893-01	LED TLY263P
D961	9-990-893-01	LED TLY263P
D962	9-990-893-01	LED TLY263P
D963	9-990-893-01	LED TLY263P
D964	9-990-893-01	LED TLY263P
D965	9-990-893-01	LED TLY263P
D968	9-990-901-01	LED TLS263P

RESISTOR

R940	1-247-703-11	CARBON 180 5% 1/4W
R941	1-247-700-11	CARBON 100 5% 1/4W
R942	1-247-704-11	CARBON 220 5% 1/4W
R943	1-247-700-11	CARBON 100 5% 1/4W
R944	1-247-704-11	CARBON 220 5% 1/4W
R945	1-247-700-11	CARBON 100 5% 1/4W
R946	1-247-700-11	CARBON 100 5% 1/4W
R947	1-247-700-11	CARBON 100 5% 1/4W
R948	1-247-700-11	CARBON 100 5% 1/4W
R949	1-247-700-11	CARBON 100 5% 1/4W
R950	1-247-700-11	CARBON 100 5% 1/4W
R951	1-247-700-11	CARBON 100 5% 1/4W

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

HB	N
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Ref.No	Part No.	Description	Remark
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SWITCH

S940	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S941	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S942	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S943	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S944	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S945	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S946	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S947	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S948	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	
S949	1-553-766-00	MT SWITCH (KEY BOARD SWITCH)	

*9-990-898-01 N BOARD (KEY BOARD UNIT)

IC

IC935	8-741-138-70	IC BX1387 (DETECTOR)	
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MISCELLANEOUS

Δ 1-230-712-22	RESISTOR ASSY, HIGH-VOLTAGE	
Δ 1-426-289-11	COIL, DEMAGNETIZATION	
Δ 1-451-255-22	DEFLECTION YOKE (SY-164)	
1-452-032-00	MAGNET, DISK; 10MM ϕ	
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	

1-452-146-21	MAGNET, BMC	
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Δ 1-452-351-22	NECK ASSY, CRT (NA302)	
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1-464-792-11	KEY BOARD UNIT (A)	
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1-464-793-11	KEY BOARD UNIT (B)	
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Δ 1-559-436-11	CORD, POWER	
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1-941-403-25	CONNECTOR ASSY, MICRO 13P	
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1-941-403-26	CONNECTOR ASSY, MICRO 9P	
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1-941-403-27	CONNECTOR ASSY, MICRO 7P	
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S1901 Δ 1-554-966-12	SWITCH, PUSH (AC POWER) (1 KEY)	
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T1691 Δ 1-439-339-14	TRANSFORMER ASSY, FLYBACK	
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V901 Δ 8-736-652-05	PICTURE TUBE (A64JKJ10X)	
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ACCESSORIES AND PACKING MATERIALS

Ref.No	Part No.	Description	Remark
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A-1470-789-A	COMMANDER ASSY (RM-668)	
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*4-371-192-01	CUSHION (FRONT)	
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*4-380-432-01	BAG, PROTECTION	
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*4-382-051-01	CUSHION (LOWER) (ASSY)	
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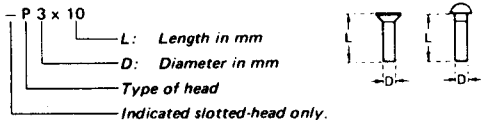
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*4-385-612-01	INDIVIDUAL CARTON	
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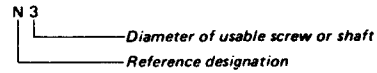
4-482-465-42	MANUAL, INSTRUCTION	
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








HARDWARE NOMENCLATURE














Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	